Developed in

Manufactured in

Assembled in

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CATALOGUE Edition 13.2

sylvac

EN

Changes without prior notice
Images may differ from reality

sylvac
Experts in connected metrology !

CATALOGUE

Edition 13.2

IIOT READY

Bluetooth®

Introduction

SYLVAC CATALOGUE

A traditional family company

Family businesses can be distinguished from other 'private' companies by their long-term vision and prudent financial structures, which make them less likely to engage in speculative activities. Having cultivated this kind of stability for 50 years, Sylvac SA has been amply rewarded by the exceptional loyalty of its staff, who identify with these values and demonstrate a remarkable degree of commitment.

Niche hi-tech products

Based in French-speaking Switzerland, a region described as the cradle of cutting-edge microtechnology, Sylvac SA develops, designs and manufactures digital measuring systems and instruments for industrial use. Drawing on a resourceful mix of expertise in electronics, mechanics and metrology, our high-precision products are renowned for their innovation and highly prized Swiss quality.

An exceptional global presence

Despite its modest size in global terms, Sylvac SA has become one of the world's leading companies in the field of dimensional measurement. Sylvac instruments are distributed across over 50 countries by a network of loyal representatives who offer them to their customers, among which are several prestigious brands that place their trust in us.

A solutions and service-oriented strategy

By taking an interest in the increasingly complex quality requirements faced by our customers, we are able to act as a genuine partner for whom the completion of a sale is just a starting point. Sylvac SA and its partners work upstream to provide each of our customers with the most suitable solutions while paying particular attention to service quality.

Tradition, receptiveness, ingenuity and boldness, as well as rigour and attentiveness, are some of the words that best define what we offer at Sylvac SA.

Why should you choose our products?

There are many sound arguments in our favour, particularly:

- Products developed and made in Switzerland with the «Swiss Made» label, representing acknowledged proof of quality throughout the world.
- Innovative, ergonomic, durable instruments designed by professional designers.
- A global presence based on a network of efficient agents who are able to provide you with local support in more than 50 countries.
- Products that meet international standards, most with IP67 protection and connection via cable or Bluetooth® technology.

We hope that you will enjoy looking through our catalogue and using our Sylvac instruments.
Thank you for your confidence in us. We remain faithfully at your service.

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Managing Director
E. Schnyder

Sylvac SA

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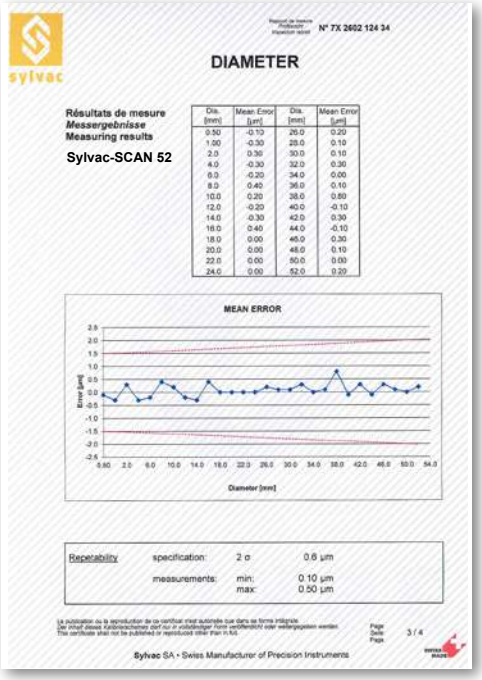
Certificates

SYLVAC PRODUCTS



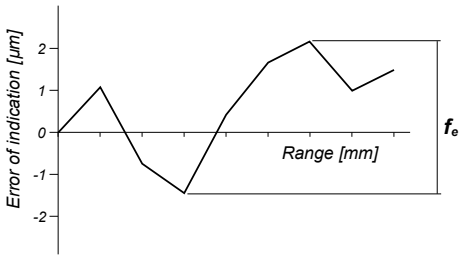
PRIX SVC
GAGNANT 2016
SUISSE ROMANDE

SYLVAC named best SMEs in western Switzerland in 2016 !

3-year guarantee :
The Sylvac brand is built on leading edge know-how in electronics, micro-electronics and micro-mechanics. Confident in the quality of its products, Sylvac offers a 3-year guarantee on its product range. (except optical machines with 2 years of guarantee, plus optional extension packages available)

Error max :
The total error mentioned in our technical specifications corresponds to the maximum difference between the highest and lowest deviation from the true position within the instrument's measuring range.
A certificate of calibration is delivered for all our instruments with a resolution of 1µm and indicates the effective maximum error of the instrument, controlled in our laboratory.
The repeatability is defined as the maximum spread of series of measurements taken at the same position by the same operator and under the same conditions.

Max. error fe



Web site :
Up to date information as well as updated files and software can be downloaded on www.sylvac.ch

CE

www.sylvac.ch

http://www.filierepolymecanicien.ch

General information

SYLVAC PRODUCTS

SYLVAC PRODUCTS :
The Sylvac patented inductive measuring system is insensitive to magnetic fields and liquids on the sensor or on the measuring scale. A very low consumption system keeps the zero setting even when switched "off". This system is particularly well adapted for measuring instruments such as calipers, indicators etc…
The Sylvac patented capacitive measuring system is used for the linear probe type of instruments where the sensor is integrated in the probe. As opposed to inductive half bridge and LVDT probes, the capacitive Sylvac system can be used over a large measuring range (up to 50mm) while preserving an excellent linearity (1µm/25mm) and repeatability (0.2µm).

WATER RESISTANT

Characterizes the instruments whose the electronic module and the measuring system are protected against liquids. The IPXX degree defines the protection rating of the instruments.

SIS Smart Inductive System

Characterizes instruments equipped with a Smart Inductive Sensor with an extremely low power sleeping mode, which keeps its origin (last zero setting) and automatically wakes up when a movement is detected.

IP54 / IP65 / IP67

Characterizes instruments whose electronic module and measuring system are protected against liquids. The IPXX degree defines the protection rating according to IEC 60529.

IP54 : protected against dust. Protected against water spray from all directions
IP65 : completely sealed against dust, protected against water jets from all directions
IP67 : completely sealed against dust, protected against temporary total immersion

Power and battery life
All the handtools, indicators, scales and micrometer heads are powered with a Lithium battery CR2032. If equipped with a «Power» output, the connector replaces the battery and the power is given by the PC or the display unit.

Smart tools Bluetooth®

Sylvac devices integrating *Bluetooth®* 5 wireless technology can achieve a range of about 20 meters (long range up to 80 meters). Electromagnetic wave emissions of the Bluetooth® low energy module are limited to 1 mW, which equals 1/100 of the power emitted by a WiFi.

If the device is kept at a distance of at least 20 cm, the effects on the human body are therefore thousands of times smaller than those of a cellphone held to the ear.

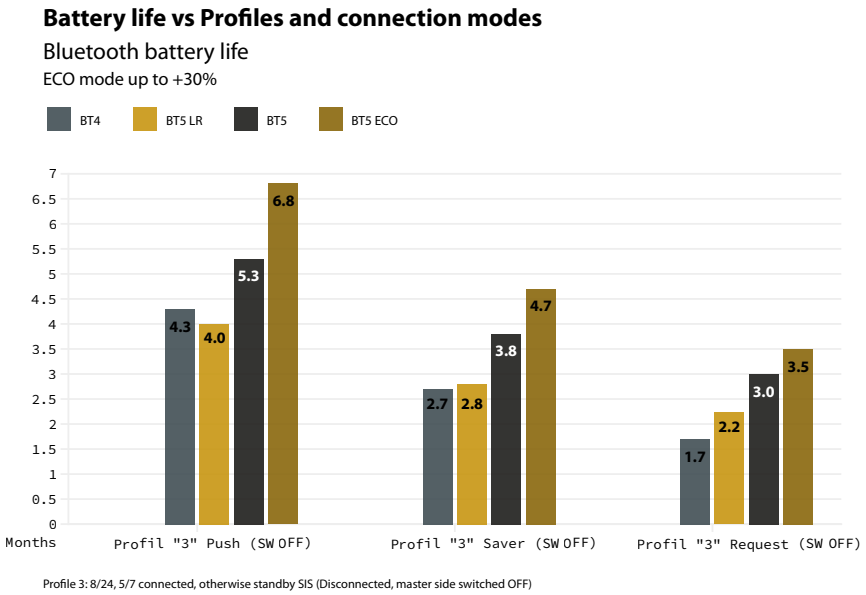
IOT ready functions :

- Choose your profile
- Customise functions
- Save functions
- Monitor battery life
- Manage calibration date
- Blinking display function

Benefits of the technology Bluetooth® 5 :

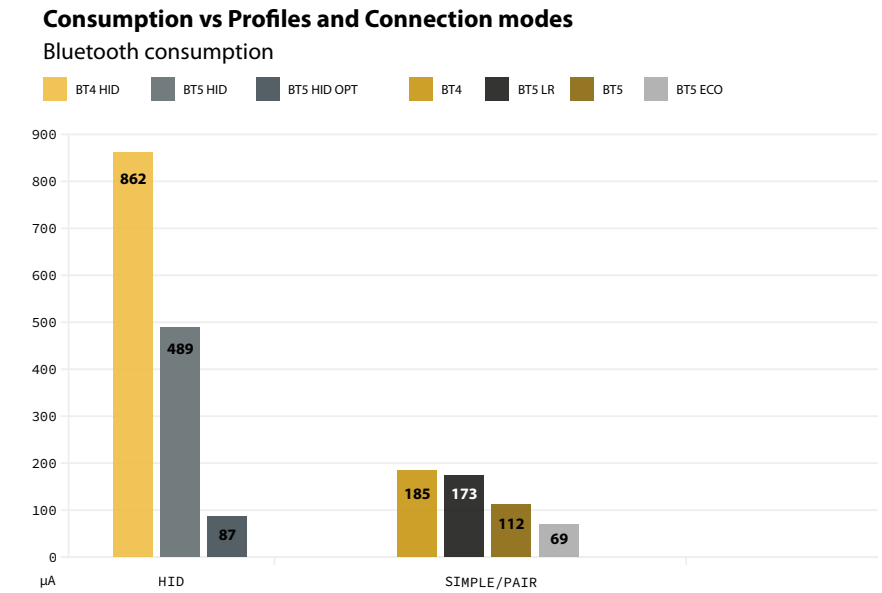
- Increased battery life
- Power consumption in HID mode 10x lower than with Bluetooth® 4 and 1.8x lower with PAIR and SIMPLE modes
- Long range mode up to 80 meters range
- Enhanced connection stability

Battery life with a CR2032 battery depending on working mode :



Profile 3: 8/24, 5/7 connected, otherwise standby SIS (Disconnected, master side switched OFF)

Comments :
- Values may change depending on type of instrument.
- CR2477 battery usable with some instruments (four times the battery life compared to CR2032).
- SBY: Sleep mode with automatic wake-up on movement. Point of origin is preserved.
- OFF: Full off mode, wake-up only by pressing a button.



The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Sylvac is under license. Other trademarks and trade names are those of their respective owners.

CABLES & SOFTWARE

With the help of the latest technologies, the industry is taking a new historical turn and is becoming increasingly «autonomous». In the sense that processes are simplified, ordered and organised in a predictive manner, inter-system connectivity is at the heart of the Industry 4.0 concept.

This new model is intended to be more interactive, in the sense that it is no longer up to the employee to fetch the information, but up to the devices to give it to them. Measuring instruments are an integral part of this process, which is why Sylvac is committed to offering innovative solutions for data collection and processing, which you will find in this chapter.

Data transmission and software

CONNECTIONS

A

What is the future for metrology?
Industry 4.0 and other similar concepts want to take data collection to new levels, monitoring all along the manufacturing process, collecting and storing information from all measuring equipment.

Traditional metrology will evolve towards more automation and digital (paperless) solutions which will enable increased traceability and remote monitoring of a whole set of information centralised on one server.

Sylvac is ready for the challenge!
As Pioneer and Expert in connected Metrology, Sylvac did not wait the current excitement for data acquisition to offer reliable connection options and data processing software on the market. We have been striving to provide solutions for decades, first of all by offering wired connections (RS232 then USB) and over the last few years, by launching amazing Bluetooth wireless instruments that meet the current requirements, this at a price similar to the wired solutions of yesteryear.

The advantage of our instruments with Bluetooth® Wireless technology
Wired connections limit operator's freedom of action and more flexibility for the operator requested to execute measurements. New solutions can also be implemented for control-ling components using specific instruments or positions. Here are some of the highlights:

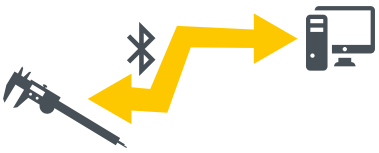
- <u>The solution is totally integrated into the instrument</u>
  The wireless Bluetooth® transmitter is fixed on the electronic module of the instrument and no further accessory is required. The Sylvac instrument with Bluetooth® Wireless technology that you receive is ready to be connected. Most of our competitors claim to offer wireless solutions, which are not really wireless solutions, or which require an external element to be acquired which is often fragile and costly! Our integrated system also has the advantage of not being sensitive to liquids or dirt.

- <u>Transmission distance</u>
  The maximum distance between the instrument and the peripheral device receiving the values is generally between 5 and 80 meters, depending on the configuration of the premises and any potential disruptive influences. Given that a wired USB connection is limited to 7 meters, the transmission range of our instruments with Bluetooth® Wireless technology is therefore greater than wired connections most of the time!

- <u>Autonomy</u>
  Sylvac's technological achievement was to offer a solution with energy-efficient Bluetooth® Wireless technology so that our instruments powered by a standard lithium battery could remain connected and used for several weeks, even several months. This is achieved thanks to our patented measurement system (Sylvac System) which only needs minimum energy. On request our agent can give you an estimate of the battery service life of your instrument taking your specific usage conditions into account.

Data transmission and software

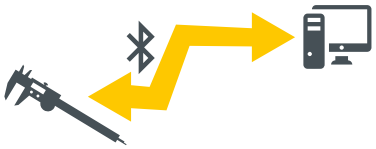
CONNECTIONS



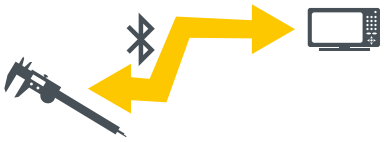
- Duplex Transmission
  Sylvac instruments are currently the only instruments able to communicate bidirectionally by Bluetooth® Wireless technology with the peripheral to which they are connected. This means that they can both send values and information and receive and interpret them. The best example of this is the transmission from the computer of a zero reset command for the instrument. This ensures the synchronisation of the value displayed on the instrument and on the peripheral device in order to limit the risks of error.

- Freedom of action at the price of a wired connection
  One important factor to consider when selecting an instrument is of course its price! Our Sylvac instruments with Bluetooth® Wireless technology also offer, as well as the features listed above, the benefit of not costing more than a traditional wired digital instrument. Therefore they can be used everywhere as replacements for wired instruments.

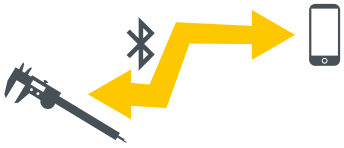
How to connect our instruments with Bluetooth® Wireless technology
Flexibility is one of the watchwords that characterise our Sylvac instruments with Bluetooth® Wireless technology. They can be connected to a computer running Windows, to our D300S and D400S display units and to a Smartphone or Apple or Android tablet. This is how to connect them:



- Connection to a computer
  There are different requirements depending on the instrument and the Windows operating system running on your computer. The most reliable solution is to attach a Sylvac Bluetooth® dongle to your computer which can connect up to 8 instruments (BT 4.0 dongle), 16 instruments (BT 5 dongle) or 6 instruments (integrated Bluetooth® computer, PC-dependent). The most recent instruments also have a Human Interface Device (HID) direct communication mode enabling them to connect to a computer as a peripheral keyboard and transmit the values in any software application. (Use without dongle from Windows 10 possible with Sylcom)



- Connection to our multi-functional display units
  Our D300S display unit can be fitted with a Sylvac Bluetooth® dongle in order to connect up to 8 Sylvac Bluetooth® instruments. The same applies to the D400S unit to which one or several (up to 12) M-Bus BT modules can be connected enabling a multitude of Sylvac Bluetooth® instruments to be connected to it.



- Connection to a smartphone or tablet
  Our instruments can be connected directly to a smartphone and to tablets running Android or iOS. Sylvac demonstration apps are available from the Google Store and the Apple Store. These apps demonstrate the connection of one of our instruments with Bluetooth® technology to one of these peripheral devices. As this area is evolving very rapidly, please refer to our website for the latest information.

Data transmission and software

CONNECTIONS

A

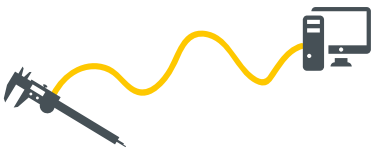
IIOT Ready connection
The third generation of Sylvac Bluetooth® Technology equipped all Smart instrument for more possibilities and easier connection.

- SIMPLE Profile (default mode)
  - Instruments can be connected to several devices, but only one active connection and on a «first come, first served» basis.
  - Best solution if different people share the same instrument which has to be connected to several devices.
  - Avoid pairing manipulations at each device change.

- PAIRED Profile
  - Several instruments connected and locked (paired) to a specific device, which allows to have a lot of control stations side by side in a small area.
  - Best secured solution for a permanent control station.
  - Avoid instruments connecting to the wrong device.
  - Device-Instrument link has to be reset in order to connect to another device.

- HID Profile (Human Interface Device)
  - The instrument can be connected only to one specific device, but device can accept multiple input devices (keyboards, bar code reader, etc.).
  - Emulate a keyboard action.
  - Write and send data to any software/device without any further settings.
  - Device-Instrument link has to be reset in order to connect to another device.

Wired connections



- Wired Connections
  Despite all the benefits described above, it could be that Bluetooth® Wireless technology is not the most appropriate solution for a specific application. We are of course able to provide a connection cable fitted either with an RS232 or USB connector for every Sylvac instrument with a data output. Our standard cables are 2 or 3 meters in length depending on the models. On request they can be delivered in special lengths of up to 15 metres for RS232 cables and up to 7 metres for USB cables.

Use of a digital test indicator without its battery
In some cases, as for example when a digital test indicator is installed in a location that is difficult to access, or if it is fitted on a non-stop operating machine, it may be advisable to replace the battery of the instrument with a special cable (Power) which will ensure both its power supply and the data transfer. Most of our digital test indicators offer this option and they are identified by the Power logo. Other digital test indicators, intended for connection to programmable logic controllers (PLC) also operate without a battery and their power supply is provided by the controller.

Please refer to the chapter on cables for details on the different cables available.

Data transmission and software

CONNECTIONS

Connection Proximity

Connection RS-485

Connection M8

Bluetooth® Wireless technology with dongle

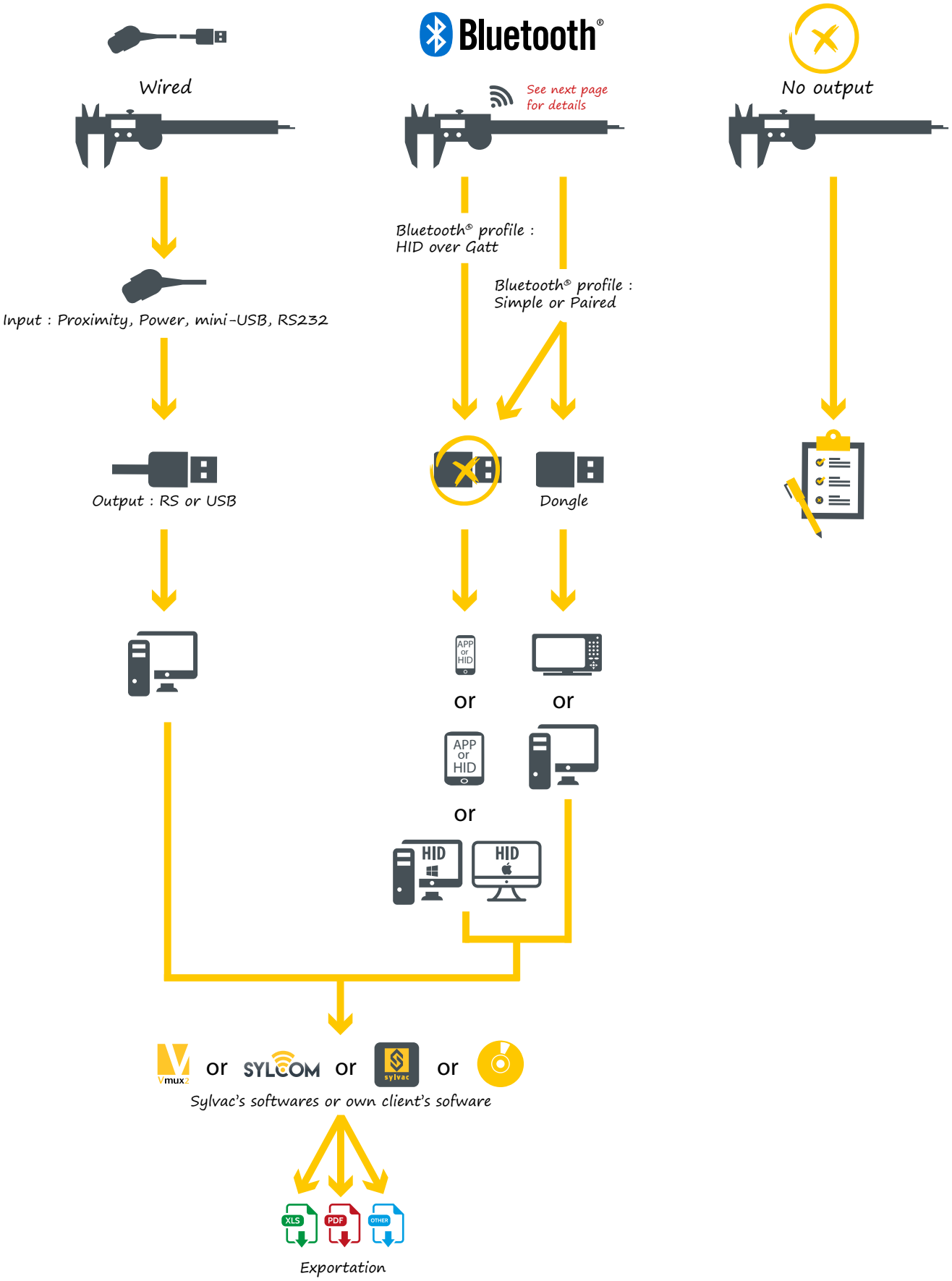
Bluetooth® Wireless technology and USB

Bluetooth® Wireless technology via HID

Data transmission and software

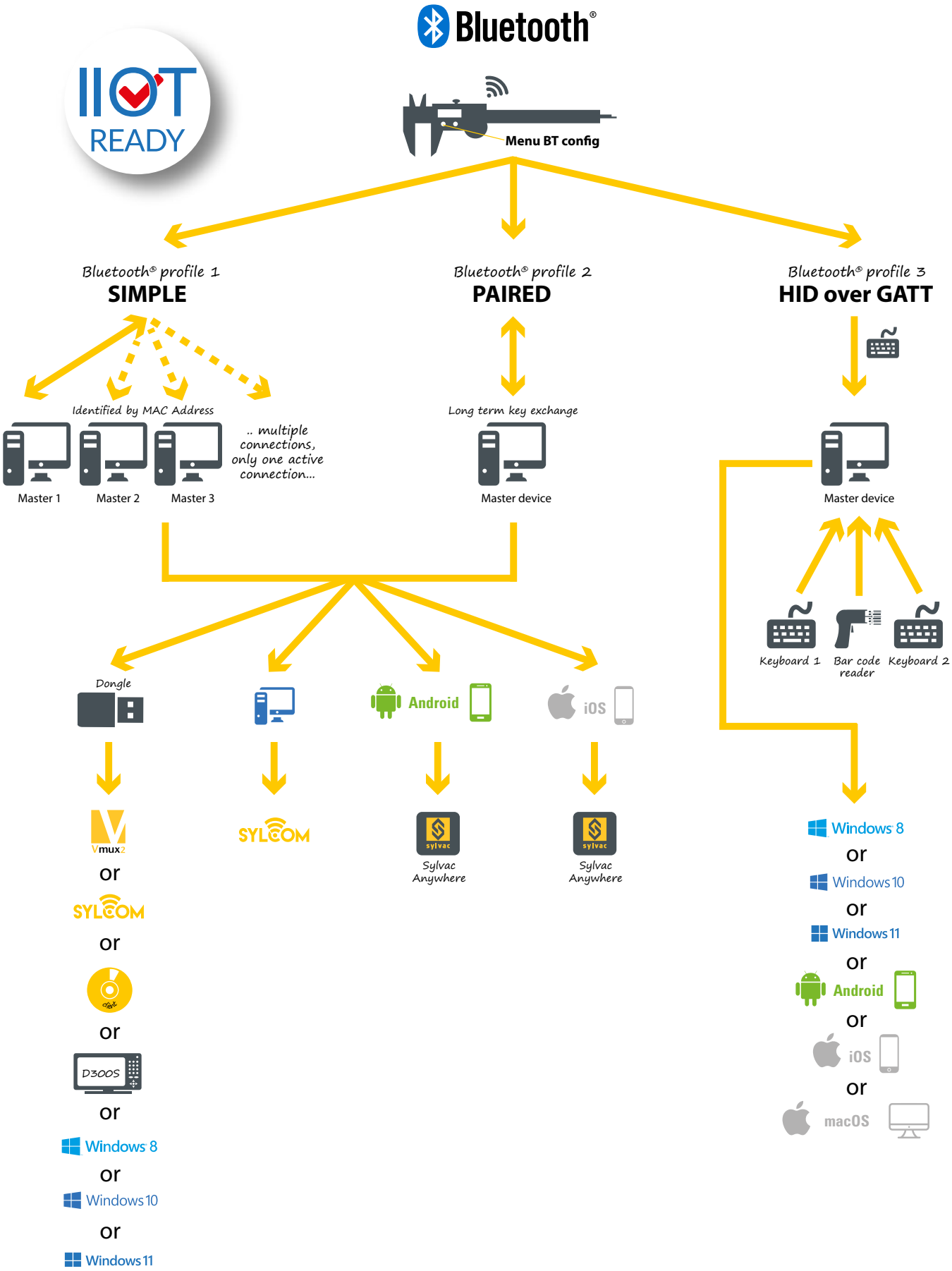
CONNECTIONS POSSIBILITIES

A



Data transmission and software

WIRELESS CONNECTION PROFILES



Sylvac softwares Sylcom

DATA TRANSFER

A

SYLCOM

Sylcom is the latest software product to be launched by Sylvac and has been designed to process information from instruments connected via Bluetooth® Wireless technology or via a USB cable. It creates an almost limitless number of display channels spread over one or several pages. Several display modes are available so that the status of the variable measured (GO/NG) can be visualised instantaneously. Sylcom can also be used to measure components sequentially, to collect all values simultaneously and to define a time interval in order to save values automatically. The data can be saved in Sylcom and then exported to an Excel file.

The concept is to offer a modular software application based on the specific functionalities required.

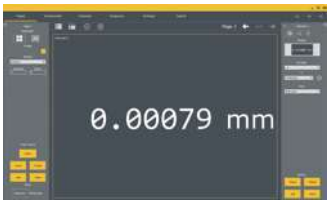
Free Sylcom LITE version on www.sylvac.ch

Available in **LITE** version of the software allowing to connect 1 instrument and 1 pedal (free), **Standard** version with standard functions allowing to connect up to 16 instruments or pedals, by USB cable (maximum 15) by Bluetooth® or by M-BUS modules., **PRO** version, allowing to connect up to 15 instruments by USB cable, up to 40 instruments by Bluetooth® and up to 128 instruments by M-BUS modules (total maximum 128 connected instruments). Several features such as control plans, monitoring, statistics and SPC export are available (60 days trial version available) and **Expert** version offering the same functionalities as the PRO version, but with the additional possibility of connecting up to 500 instruments via Bluetooth® with the «On the fly» mode, to communicate in the OPC-UA protocol and to automatically suggest tool corrections to some CNCs machines.

Your metrology partner for the new challenges ahead!

We hope that all the information described above has convinced you that Sylvac is not only a manufacturer of innovative and high-quality measuring instruments but also the partner you need to help your quality control evolve towards the new industrial model that awaits us.

SYLCOM
Data processing software



Channel display

Multi-channel display with colour-coded tolerances

Statistics

Control plans

Softwares SYLCOM	Order number Dongle licence	Order number Digital licence
Sylcom LITE	-	FREE
Sylcom Standard	981-7132	981-7129
Sylcom Pro	981-7240	981-7245
Sylcom Expert	981-7250	981-7255
Upgrade Sylconnect to Sylcom*	981-7139	-

Accessories	Order number
Dongle Smart 4.0	981-7100
Dongle Smart 5	981-7102
USB pedal	926-7020
Footpedal Smart	926-7022

* contact us to get the procedure for the update

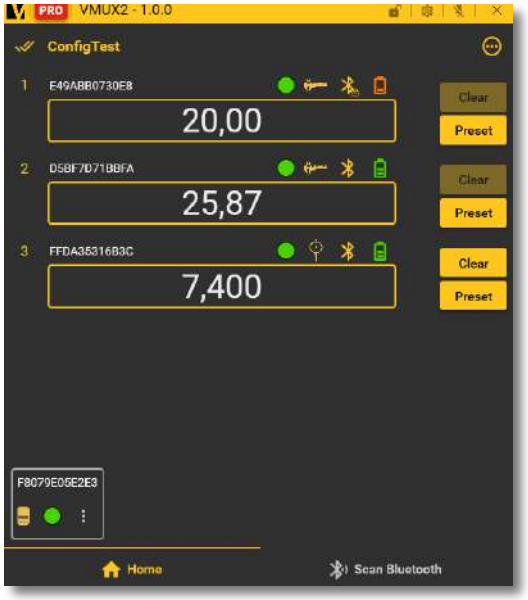
Applications

Vmux2

DATA TRANSFER

Vmux2

This software may be considered as a virtual interface which assigns a COM port to instruments connected by wireless Bluetooth® transmission or by USB cable and then redirects the values from these instruments to any Windows software for CSV, Excel, COM port or active field export. Extremely user-friendly, Vmux2 replaces the multiplexer boxes previously used, and runs in the background of Windows.



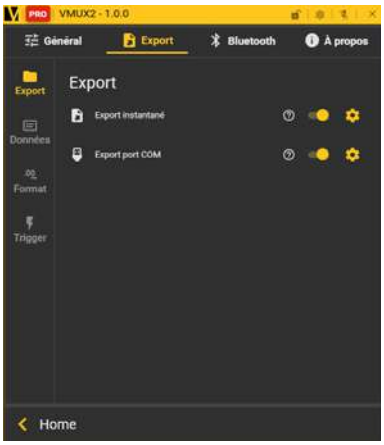
Basic functions

- Maximum 1 instrument and 1 footpedal connected via cable or Bluetooth® connection
- Two-way communication
- Export your dimensional data in CSV or Excel file
- Export your values from USB or Bluetooth® over Port COM
- Export your dimensional data in an active field
- Runs in Windows background

The free Vmux2 Lite version, limited to 1 instrument and 1 pedal, can be downloaded free of charge from our website. The Standard version of Vmux2 connects up to 16 instruments, with automatic instrument selection and manages the calibration date. The PRO version lets you connect up to 64 instruments and send instrument-specific commands.

Clear display of connected instruments

Compact display of instruments



Simplified export configuration

	Softwares Vmux2	Order number
LITE	Vmux2 LITE	FREE
STA	Vmux2 Standard	981-7165
PRO	Vmux2 PRO	981-7166

Try the free version Vmux2 LITE available on our website www.sylvac.ch

Accessories	Order number
Dongle Smart 4.0	981-7100
Dongle Smart 5	981-7102
USB pedal	926-7020
Footpedal Smart	926-7022

DATA TRANSFER

A

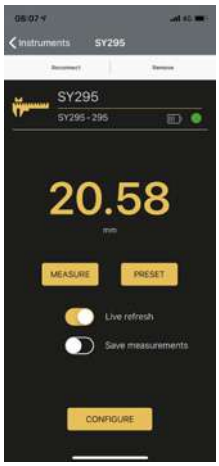
Sylvac Anywhere

Allow to display the instruments values with Wireless *Bluetooth®* Technology on tablets and smartphones Android from version 5.0 and Apple from version IOS9, equipped with Wireless *Bluetooth®* Technology 4.0 and 5.

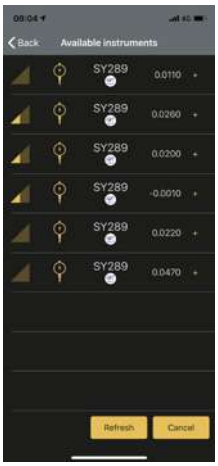
Possibility to saved data on the device and to export them to any compatible application.

Available for free on the Google Play Store and the l'App Store.

Dedicated application for Sylvac instruments with old and new Bluetooth® technology.



Instrument connected



Available instruments

Data saved

Exportation of data

No dongle required !

ANDROID APP ON Google play

Available on the App Store

Various softwares

OVERVIEW OF SOFTWARE AND FUNCTIONS

	SYLCOM				VMUX2			SYLVAC ANYWHERE
TYPE	LITE	Standard	Pro	Expert	LITE	Standard	PRO	
REFERENCE		981-7132/29	981-7240	981-7250		981-7165	981-7166	
NUMBER OF INSTRUMENTS								
Max. 1	●				●			
Max. 8								
Max. 16		●				●		● 3)
Max. 64							●	
Up to 128			● 1)					
Max. 500				● 2)				
PLATFORMS								
Android/iOS								●
Windows 8.1	●	●	●	●				
Windows 10	●	●	●	●	●	●	●	
Windows 11	●	●	●	●	●	●	●	
Dongle required for instruments Smart	(●)	(●)	(●)	(●)	●	●	●	
FUNCTIONS								
Export CSV	●	●	●	●	●	●	●	
Export to Microsoft Excel®	●	●	●	●				
Immediate export to external program	●	●	●	●	●	●	●	●
Communication gateway (virtual COM port)	●	●	●	●	●	●	●	
Display value	●	●	●	●	●	●	●	●
Display tolerances	●	●	●	●				
Analogue display	●	●	●	●				
Chart display	●	●	●	●				
Multi-channel		●	●	●		●	●	
Flatness and advanced formulas			●	●				
Inspection plan			●	●				
Statistics			●	●				
Action sequences		●	●	●				
Actions scripts			●	●				
User management	●	●	●	●				
Work menu (controlling instrument menus)	●	●	●	●				
OPC-UA Mode				●				
Tool corrector				●				
Automatic instrument selection						●	●	
Calibration date management						●	●	
Send instrument-specific commands							●	

1) via Mbus (depends on hardware), max. 40 instruments with Bluetooth® Wireless technology (5 dongles)

2) via «On the fly» Mode, no pairing

3) Depends on device

Wireless transmission

Dongle Smart

A

DESCRIPTION

- Possibility to connect up to 16 instruments per dongle
- Duplex data transmission
- Plug and play !
- Individual identification of each instrument with *Bluetooth®* wireless technology
- Automatic detection of instruments
- Mode «Long range»
- Long battery life
- Improved connection stability

981-7103

981-7102

TECHNICAL SPECIFICATIONS

		981-7103	981-7102
USB		●	●
Bluetooth® transmission version		Bluetooth® 5	Bluetooth® 5
Coupled instruments per module		16	16
Automatic detection of instrument		●	●
Instruments and software compatibility		Sylcom & Vmux2	Sylcom & Vmux2
Transmission distance [1]	m	25 (90 in long range mode)	20 (80 in long range mode)
«Long range» mode		●	●

[1] depends on the environment.

Wireless transmission

S_Footswitch Smart

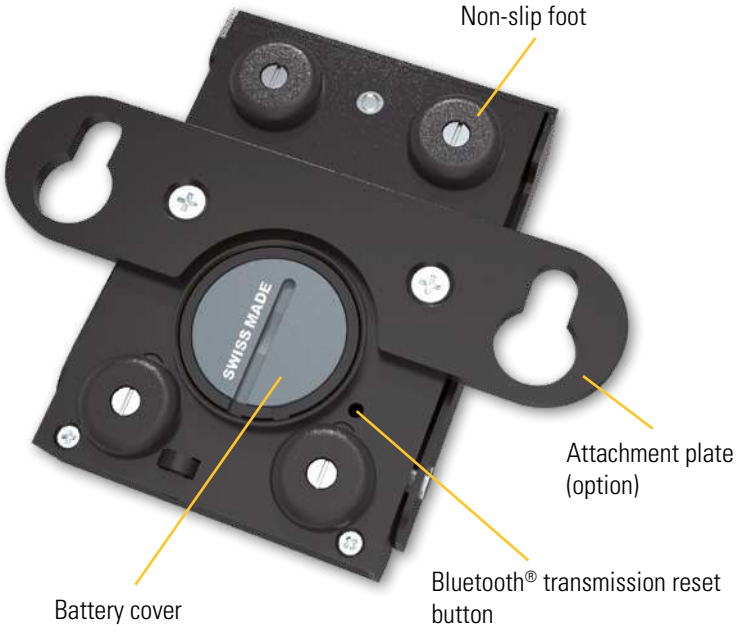
DESCRIPTION

FOOTPEDAL SMART

A

- Robust footpedal with Bluetooth® wireless technology
- IP rating IP53
- Battery life : 3 years (Battery CR2477)
- Possibility of trigging sequences from the software Vmux2 & Sylcom

Built-in Bluetooth®



Connection via dongle 981-7103, 981-7102 or computer's built-in Bluetooth®.

TECHNICAL SPECIFICATIONS

S_Footswitch Smart		926-7022
Connection		Bluetooth® wireless technology*
Weight	g	260
Software compatibility		Vmux (1.37 and later), Vmux2 and Sylcom
Transmission distance [1]	m	up to 15m

[1] depends on the environnement

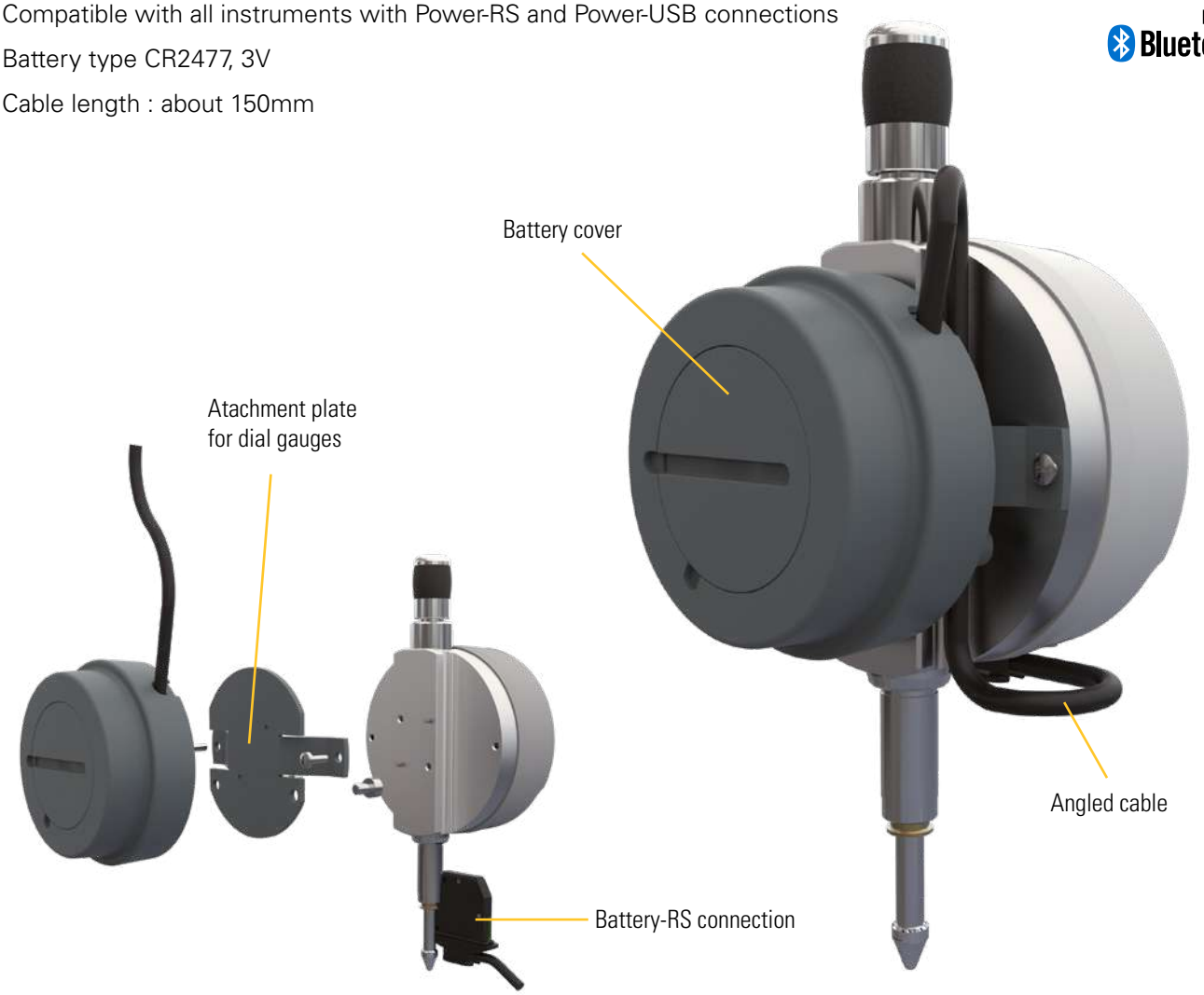
Accessories		926-7023	985-2217
Description		Fixing plate	Adapter for battery CR2032
Weight	g	85	5

Wireless transmission — Battery Pack

DESCRIPTION

- External power-supply for instruments with Bluetooth® wireless technology
- Compatible with all instruments with Power-RS and Power-USB connections
- Battery type CR2477, 3V
- Cable length : about 150mm

Built-in Bluetooth®



TECHNICAL SPECIFICATIONS

Battery Pack		**926-7024**
Connections		Power-RS / Battery-RS
Weight	g	71.6 (91.4g with atachment plate)
Capacity max.	mAh	1000
Clamping		compatible with dial gauges Ø60mm
Cable length	mm	150

Accessories		**985-2217**
Description		Adapter for battery CR2032
Weight	g	5

Other

BATTERIES

	Order number and compatibilities
Battery CR2032	**985-2215** Calipers S_Cal, ultra-light calipers ULX4 [1], dial gauges S_Dial (except PLC), micrometers, bore gauges, digital scale S_Scale digital micrometer screws, Feeler Gage, depth gauges S_Depth, Protractor, Hi_Gage, footpedal Smart[1] and benches table PS16 V2[1]
Battery CR2477	**985-2216** Ultra-light calipers ULX4. benches table PS16 V2, footpedal Smart, Battery Pack

[1] With adapter

FOOTPEDAL USB

	Order number and compatibilities
Footpedal USB robust	**926-7021** PC only
Footpedal USB	**926-7020** PC only

Cables

S_Connect

CONNECTION

A

Our cables are available in various lengths indicated below.

On request, we can deliver our special length cables, within the following limits:

- RS232 cables: maximum length 15 meters
- USB cable: maximum length 7 meters.
- Special length cable on request : 926.1999.99

	Standard 2 m	Standard 3 m	Standard 5 m	≤15 m	Bi-directional
Opto RS	926-5521	--	--	926-5535	
Opto RS	926-6521	--	--	926-6535	●
Opto RS	926-6538	--	--	926-6542	●
Opto RS	926-6539	--	--	926-6543	●
Opto USB	926-6621	--	--	[1]	●
Power RS	--	905-4516	--	905-4519	●
Power RS (bent)	--	905-4538	--	[1]	●
Power USB	--	926-6821	--	[1]	●
Power USB (bent)	--	926-6838	--	[1]	●
PLC digital indicator	--	--	926-6101	--	--

[1] Maximum 7m (Standard 5m)

Please note that all Power-USB cables must be used with a Sylvac charger. The use of a telephone charger or any other charger not approved by Sylvac may damage the cable or the instrument. Any damage caused by such misuse will not be covered by the guarantee.

Cables

S_Connect

CONNECTION

S_Cal Pro / S_Mike Pro / S_Cal EVO Proximity	UL4	S_Depth PRO S_Scale WORK / S_Scale EVO	Protractor	S_Dial S233 / S234 / S_Dial MINI / S_Dial TEST	S_Dial PRO / S_Dial WORK Hi_Gage ONE	Xtreme	Digital microscrew	Hi_Cal	PS16 VS	S_View D50S / D80S PC output	S_View D200S	D300S instr. input	D300S output PC	D302 / D304	D400S	D70S/H/I/A	S_Dial WORK PLC
									•			•					
									•			•					
									•			•					
									•			•					
									•			•					
		•	•	•	•	•	•					•					
		•	•	•	•	•	•					•					
		•	•	•	•	•	•					•					
		•	•	•	•	•	•					•					
																	•

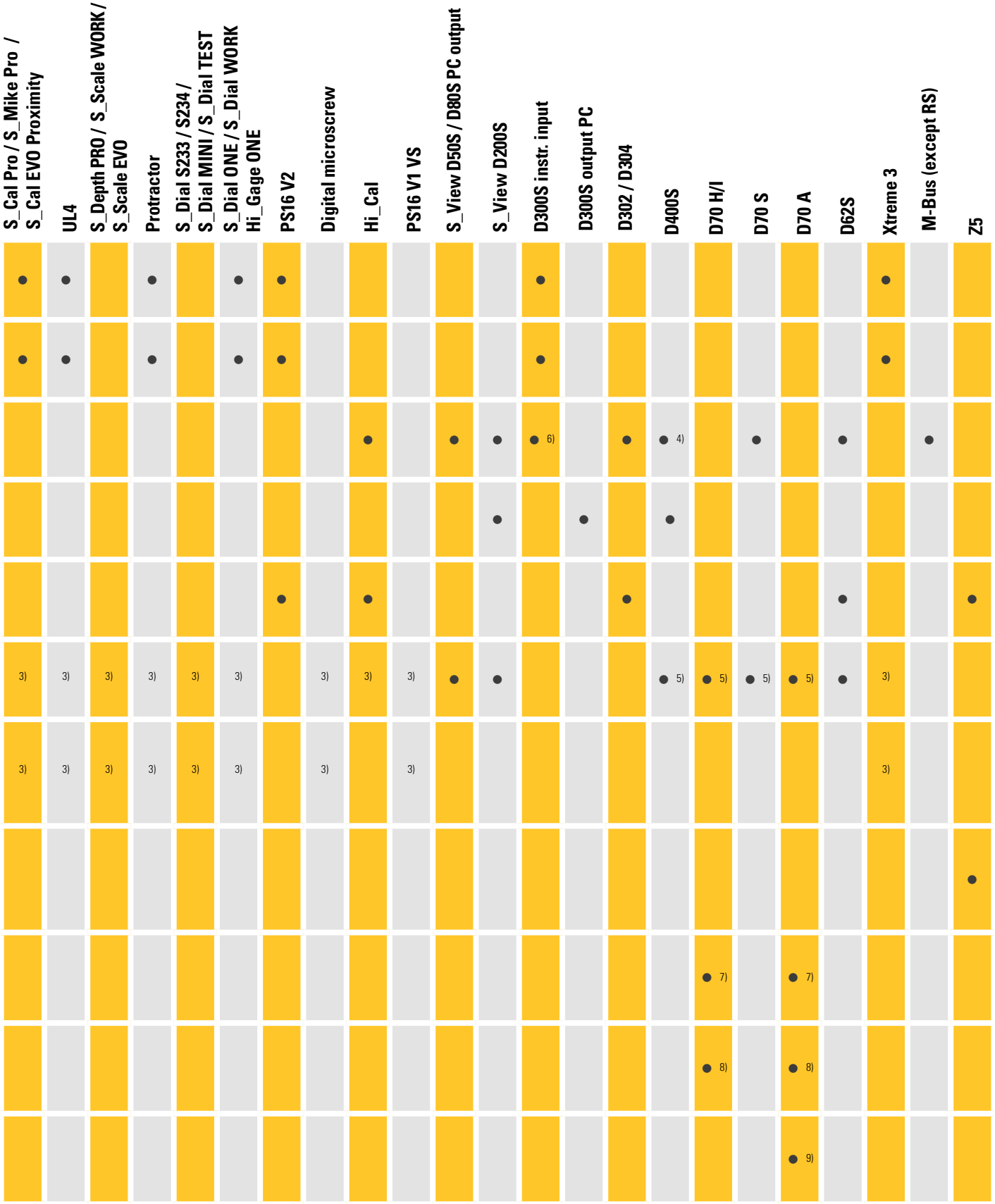
		Standard 2 m	Standard 3 m	≤15 m	Bi-directional
	Proximity RS232	--	926-6723	[1]	●
	Proximity USB	--	926-6721	[1]	●
	RS232 1:1	--	925-5609	[1]	●
	USB-USB	--	804-1210	--	●
	Mini USB-USB	--	926-6001	--	●
	Adaptator RS-USB	925-1142*	--	--	●
	Booster + footswitch	--	925-1143 [2]	--	●
	Special - mini-RS232	--	926-5505	--	●
	RS232 1X1 (3 pins wired)	--	804-2201	--	●
	RS232 1X1	--	804-2204	--	●
	M8-RS485	--	804-2205	--	

[1] Maximum 5m in USB (standard 3m) and 15m in RS (standard 3m)
[2] must be connected with bi-directional cables only
* The D70 and D400S do not work on Vmux or Vmux2 with this adapter

Cables

S_Connect

CONNECTION



[3] must be connected with RS232 cables
[4] For MB-XX module and RS232 PC connections
[5] RS232 connection to PC (D70S version and D400S only) bidirectional. Versions D70I/H require a crossover RS232 cable.
[6] Not working on PC
[7] Update of the units
[8] Crossover cable for PC connection
[9] Connection cable for MB-I/O

DIGITAL INDICATORS S_DIAL

Digital comparators have contributed greatly to Sylvac's success and reputation for decades. Sylvac can therefore be considered the world leader in this type of instrument, thanks to the wide range of products available, but also because of the specifications and advanced functions offered by the dial indicators that you will find in this chapter.

GENERAL CHARACTERISTICS :

- **Powered by lithium battery type CR2032**
- **Absolute measuring system S.I.S**
- **Automatic sleep and wake-up**
- **mm/inch conversion on all models**
- **Working temperature +5° to +40°C**
- **Comparators supplied with interchangeable steel M2.5 contact point, with tungsten carbide ball Ø 2 mm**

Digital indicators S_Dial

SUMMARY OF ALL TYPES

	S_Dial MINI										S_Dial TEST			S_Dial WORK																		
	BASIC				SMART									BASIC						ANALOG			CBG	ADVANCED IP67			PLC					
RANGE	805-4121	805-4125	805-4521	805-4525	805-6121	805-6123	805-6125	805-6521	805-6523	805-6525	805-4321	805-4322	805-4323	805-1201	805-1301	805-1401	805-1501	805-1601	805-1621	805-5307	805-5507	805-6308	805-6317	805-5305	805-5505	805-5625	805-7301	805-7201	805-7501	805-7401
0.8 mm											●		●																		
2.0 mm												●	●																		
12.5 mm	●	●	●	●	●	●	●	●	●	●				●	●					●		●	●	●			●	●			
25 mm																●	●				●				●				●	●
50 mm																		●	●							●					
100 mm																															
150 mm																															
RESOLUTION																															
0.01 mm	●	●			●	●	●							●		●		●										●		●
0.001 mm			●	●				●	●	●	●	●	●		●		●		●	●	●	●	●	●	●	●	●		●		
MECHANIC																															
Diameter 8 mm h6	●	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Diameter 25mm g7																															
Dove tail	●	●	●	●	●	●	●	●	●	●	●	●	●																		
M1.4 contact point											●	●	●																		
M2.5 contact point	●	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Rubber boot		●		●			●			●														●	●	●					
IP51 (IEC 60529)														●	●	●	●	●	●												
IP54 (IEC 60529)	●		●								●	●	●							●	●	●	●					●		●
IP65 (IEC 60529)																															
IP67 (IEC 60529)		●		●	●	●	●	●	●	●														●	●	●	●		●	
DIAL																															
Diameter 45 mm	●	●	●	●	●	●	●	●	●	●	●	●	●																		
Diameter 60 mm														●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Rotating											●	●	●							●	●	●	●	●	●	●	●	●	●	●	●
Lifting cap	●	●	●	●	●			●						●	●	●	●	●	●	●	●	●	●				●	●	●	●	●
FUNCTIONS																															
mm/inch	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Preset	● 1)	● 1)	● 1)	● 1)	●	●	●	●	●	●	●	●	●	● 1)	● 1)	● 1)	● 1)	● 1)	● 1)	●	●	●	●	●	●	●	●	●	●	●	●
Preset dynamic																				●	●	●	●								
Measuring direction	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●
Hold					●	●	●	●	●	●	●	●	●							●	●	●		●	●	●	●	●	●	●	●
Min / Max / Delta					●	●	●	●	●	●	●	●	●							●	●	●	●	●	●	●	●	●	●	●	●
Tolerances																				●	●	●	●	●	●	●	●	●	●	●	●
Absolute system S.I.S*	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Auto off	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
Analog display					●	●	●	●	●	●	●	●	●							●	●	●	●								
Setting by PC	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Programmable menus					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Powered by connector	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Multiplication factor					●	●	●	●	●	●	●	●	●							●	●	●		●	●	●	●	●	●	●	●
Ref I / II																						2)	2)	●	●	●	●	●	●	●	●

* SIS description on page 5

Models with Bluetooth® technology

1) Preset configuration only by PC
2) 4 references

Digital indicators

S_Dial

SUMMARY OF ALL TYPES

	S_Dial WORK																		S_Dial PRO						
	ADVANCED										SMART				NANO & NANO SMART				ANALOG NANO SMART		SMART				
RANGE	805-5201	805-5301	805-5401	805-5501	805-5601	805-5621	805-5641	805-5661	805-5671	805-5681	805-6301	805-6501	805-6621	805-6661	805-5306	805-5506	805-6306	805-6506	805-6307	805-6507	805-8601	805-8701	805-8602	805-8702	805-8501	805-8502	805-8661
0.8 mm																											
2.0 mm																											
12.5 mm	●	●									●				●		●		●								
25 mm			●	●								●				●		●		●					●	●	
50 mm					●	●							●								●	●	●	●			
100 mm							●	●						●													●
150 mm									●	●																	
RESOLUTION																											
0.01 mm	●		●		●		●		●																		
0.001 mm		●		●		●		●		●	●	●	●	●													
0.0001 mm															●	●	●	●	●	●	●	●	●	●	●	●	●
MECHANIC																											
Diameter 8 mm h6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●	●
Diameter 25 mm g7																							●	●			
Spring	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●		●		●
M1.4 contact point																											
M2.5 contact point	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Rubber boot																											
IP51 (IEC 60529)																					●	●	●	●	●	●	●
IP54 (IEC 60529)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
DIAL																											
Diameter 60 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Rotating	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FUNCTIONS																											
mm/inch	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Preset	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Preset dynamic																			●	●							
Measuring direction	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Hold	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Min / Max / Delta	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tolerances	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Absolute system S.I.S*	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Auto off	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Analog display																			●	●							
Setting by PC	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Programmable menus	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Powered by connector	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Multiplication factor	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ref I / II	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●

* SIS description on page 5

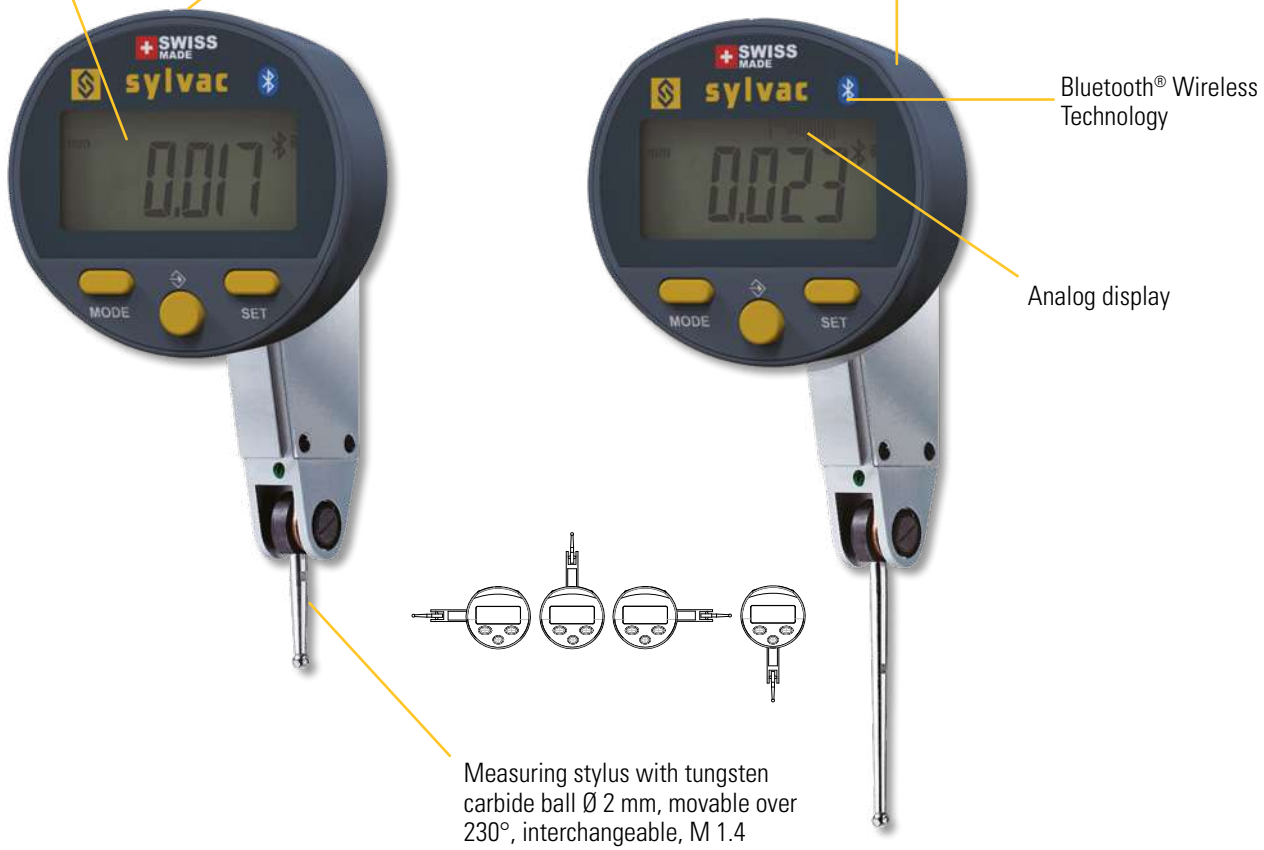
Models with Bluetooth® technology

Digital test indicator S_Dial TEST Smart

DESCRIPTION

- First digital test indicator with integrated Bluetooth® system
- Instrument for checking roundness and flatness
- Data transfer by sending a request or by foot pedal
- Compact housing Ø 45 mm rotatable by 270°.
- Revolutionary mechanical construction, without gears or gears, which eliminates hysteresis error
- Digital display resolution 0.001 mm with analogue scale
- M1.4 stylus with Ø 2 mm tungsten carbide ball, swivelling and interchangeable
- Available in 3 versions :
  - Model with stylus length 12 mm, measuring range 0.8 mm
  - Model with stylus length 36 mm, measuring range 2.0 mm
  - Combination model for 12 and 36 mm styli (supplied with both styli), measuring range 0.8/2.0 mm
- Protected against liquids IP54

Built-in Bluetooth®



Built-in Bluetooth®

POWER

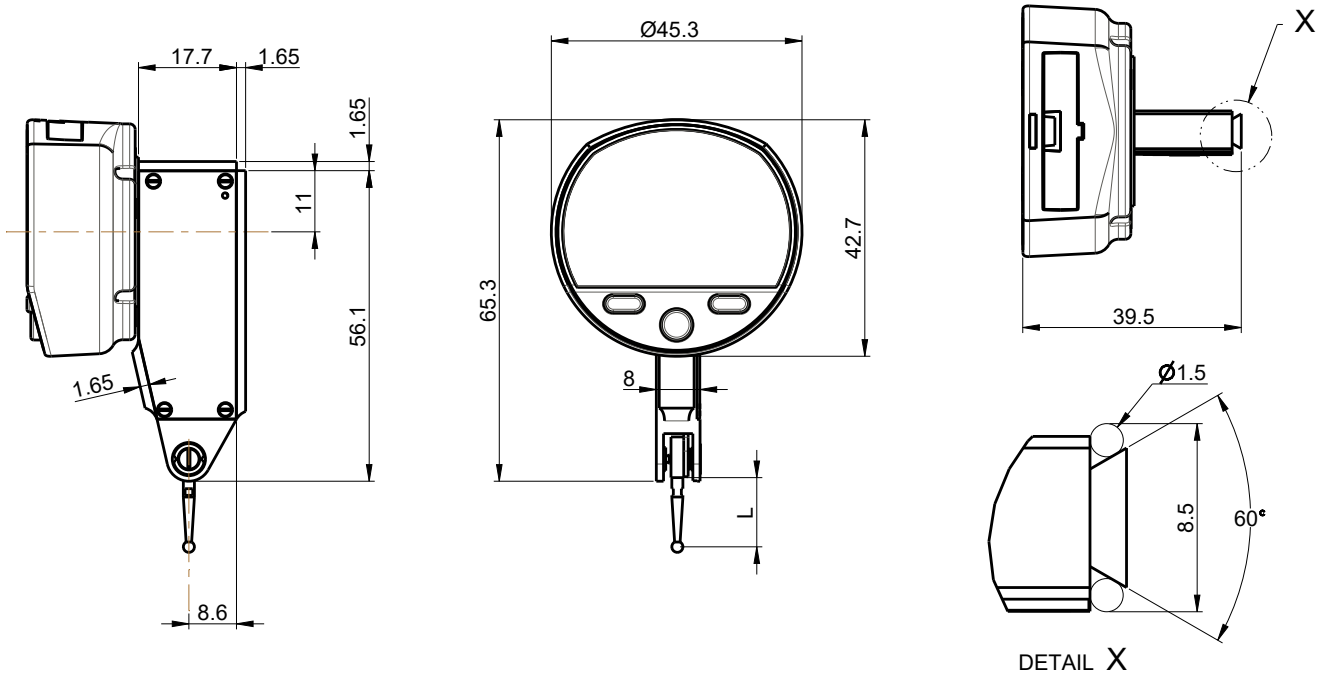
SWISS MADE

WATER RESISTANT

IP54

Digital test indicator S_Dial TEST Smart

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		805-4321	805-4322	805-4323
Measurement capacity	mm	0.8	2.0	0.8 / 2.0
Stylus length L	mm	12.5	36.5	12.5 / 36.5
MPE Indication Error	µm	3	8	3 / 8
Maximum MPE_E Indication Error	µm	4	10	4 /10
MPE_H Hysteresis	µm	2	3	2 / 3
Resolution	mm	0.001mm / .00005"		
MPE_R Repeatability	µm	1		
Measuring force	N	0.15	0.06	0.15 / 0.06
Friction on probe orientation	N	4	1.6	4 / 1.6
Weight	g	70		
Protection rating according to IEC 60529		IP54		
Output data		Bluetooth® wireless technology / RS232 / USB [1]		
Zero setting		●		
min / max / delta display		●		
Analog display		●		
Selection of resolution		●		
Preset (0.01 resolution)		±99.999 mm / ±3.99995 IN (±999.99 mm / ±39.9995 IN)		

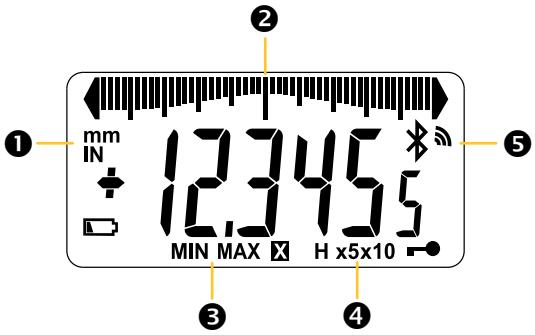
[1] see cables chapter

Digital test indicator S_Dial TEST Smart

DISPLAY

B

1. **Direct mm/inch conversion**
2. **Analog display**
3. **Min/max/delta mode**
4. **Analogic resolution display**
5. **Bluetooth® technology**



STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Quickstart
- Stem Ø 8 mm (905-2247)
- Clamping key for measuring button
- 2 contact points Ø2mm, 12.5 and 36.5mm (model 805-4323 only)

APPLICATIONS

Run-out measurement

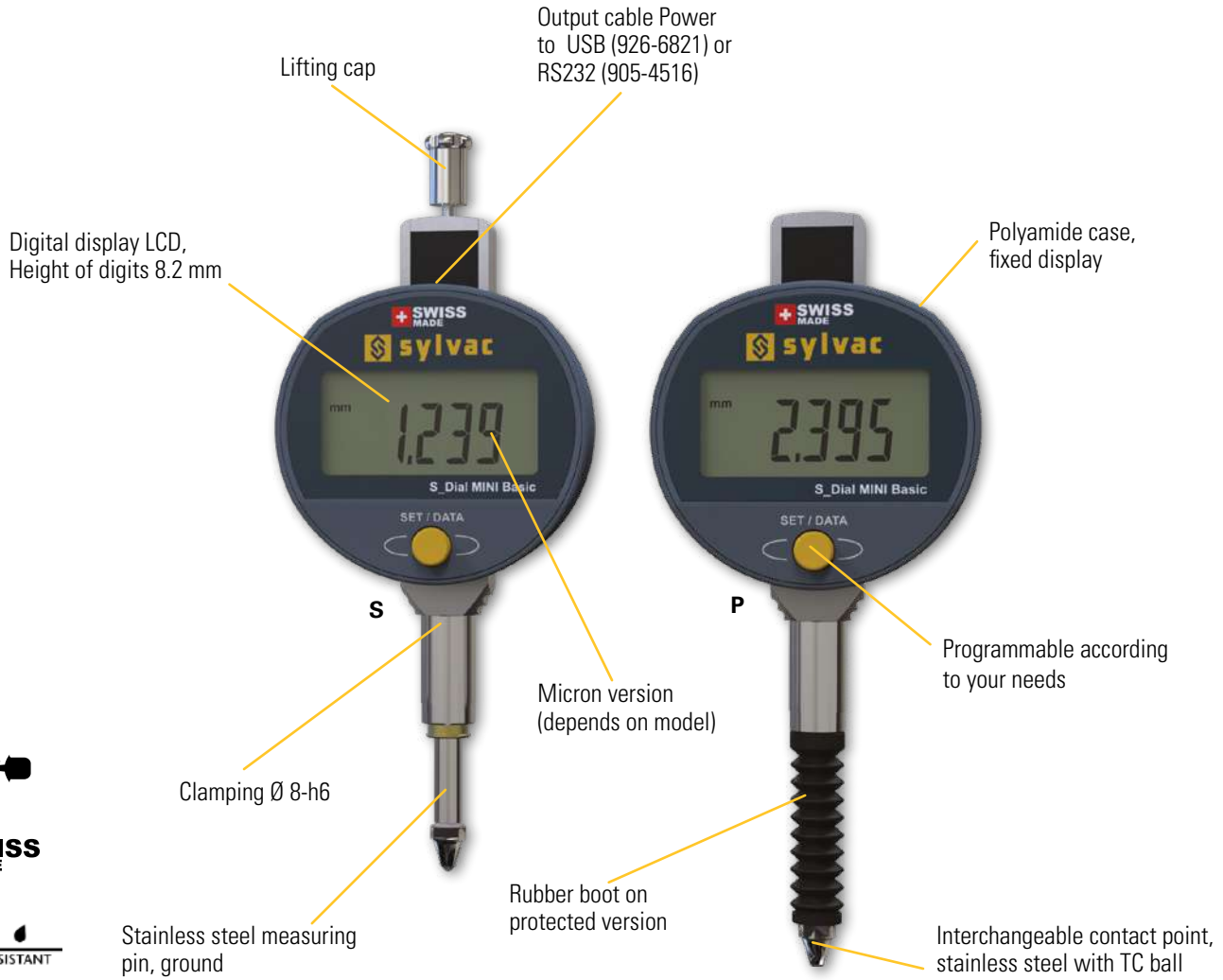
Checking the alignment on milling machine.

Perpendicularity measurement with a S234 mounted on a Hi_Gage ONE

Mini digital indicators S_Dial MINI Basic

DESCRIPTION

- Smallest digital comparator available on the market, with compact Ø 45 mm non-rotating housing
- New robust construction
- Ideal for integration into machines or various measuring fixtures
- Only one central button with favourite function to choose between recall of the preset or transmission of the value
- Selection of unit (mm/inch) and direction of measurement
- Data output «Power», works without battery when connected via cable
- Digital display resolution 0.01 or 0.001 mm
- Measuring range 12.5 mm
- Available in Protected or Standard execution
  - P version: IP67 with bellows-protected spindle, without lifting cap
  - S version: IP54, without bellows, with lifting cap



POWER

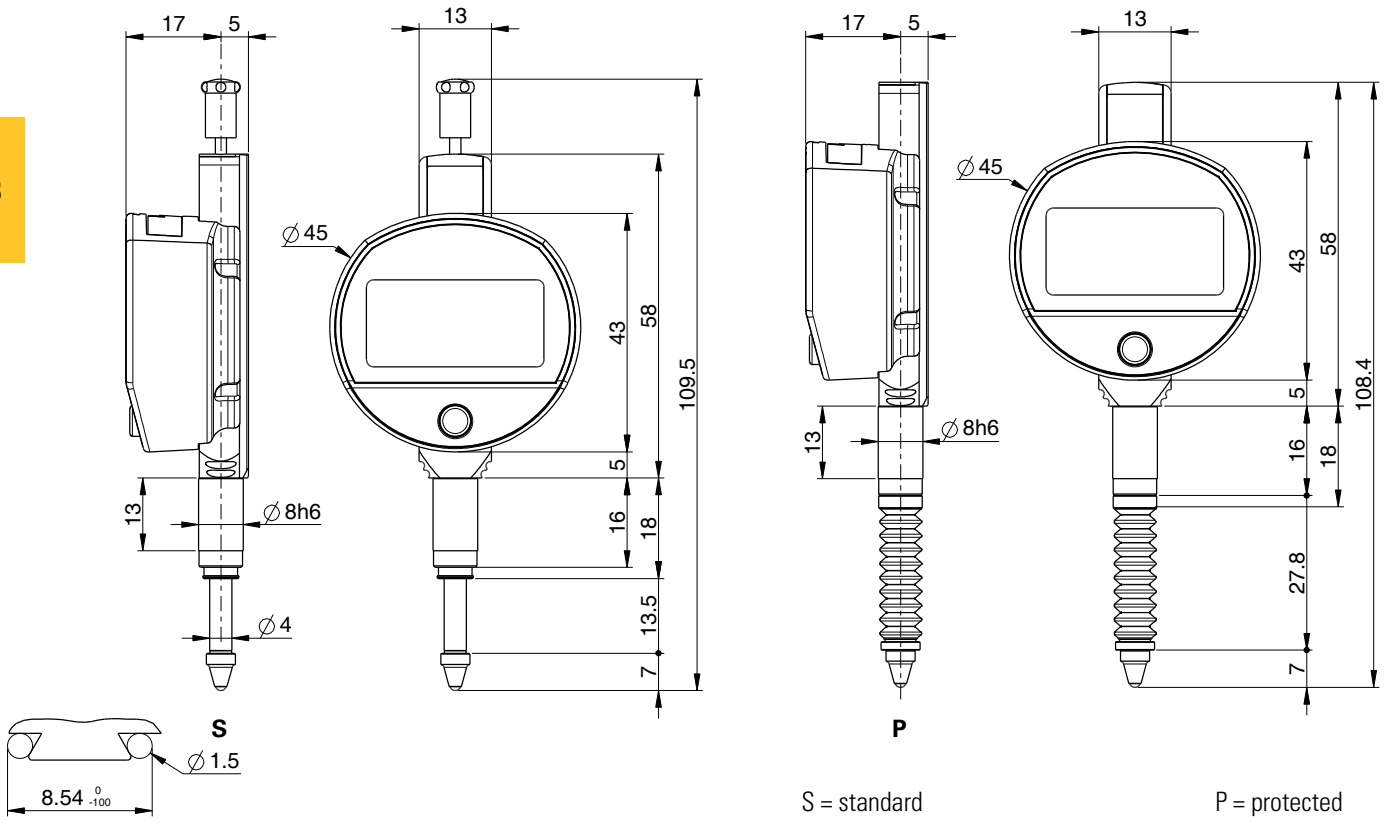
SWISS MADE

WATER RESISTANT

IP67

Mini digital indicators S_Dial MINI Basic

DIMENSIONAL DRAWINGS



S = standard P = protected

TECHNICAL SPECIFICATIONS

		805-4121	805-4125	805-4521	805-4525
Measuring range	mm	12.5	12.5	12.5	12.5
Analog scale		---	---	---	---
Resolution	mm	0.01	0.01	0.001	0.001
Execution [3]		S	P	S	P
Maximum MPE_E Indication Error	µm	10[1]	10[1]	4	4
Repeatability	µm	2	2	2	2
Measuring force [2]	N	0.5 - 0.90 N	0.6 - 1.3 N	0.5 - 0.90 N	0.6 - 1.3 N
Zero setting		●			
Resolution selection		---			
PRESET = (max. ±999.99 mm)		●[5]			
Min / max / delta display		---			
Selection of measuring direction		●			
Multiplication factor		---			
Output data		USB / RS232 [4]			
IP rating		IP54	IP67	IP54	IP67

[1] ± 1 digit
[2] Values ± 20%, indicator in vertical position, outgoing measuring spindle
[3] S = Standard P = Protected
[4] see cables chapter
[5] Preset configuration only by computer

Mini digital indicators S_Dial MINI Smart

DESCRIPTION

- Smallest digital comparator available on the market with compact Ø 45 mm non-rotating housing and integrated Bluetooth® system
- New robust construction
- Ideal for integration into machines or various measuring fixtures
- Data output «Power», works without battery when connected via cable
- Three buttons, including the central button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA
- Digital display resolution 0.01 or 0.001 mm with analogue scale
- Measuring range 12.5 mm
- Available in Protected or Standard execution
  - P version: IP67 with bellows-protected spindle, without lifting cap
  - S version: IP54 or IP67, without bellows, with or without lifting cap

Built-in Bluetooth®

Built-in Bluetooth®

POWER

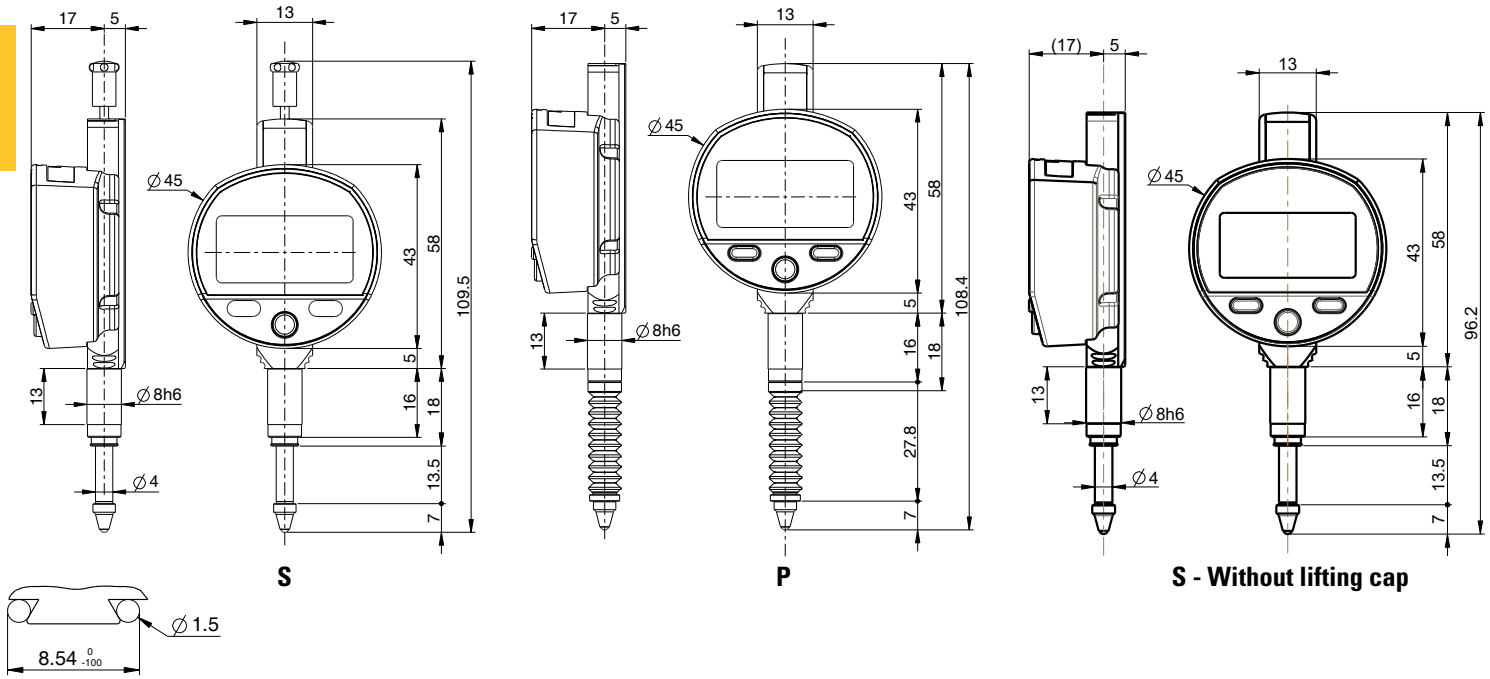
SWISS MADE

WATER RESISTANT

IP67

Mini digital indicators

S_Dial MINI Smart



Smart		805-6121	805-6123	805-6125	805-6521	805-6523	805-6525
Measuring range	mm	12.5					
Analog scale		●					
Resolution	mm	0.01	0.01	0.01	0.001	0.001	0.001
Execution [3]		S	S	P	S	S	P
Maximum MPE_E Indication Error	µm	10[1]	10[1]	10[1]	4	4	4
Repeatability	µm	2					
Measuring force [2]	N	0.5 - 0.90 N	0.5 - 0.90 N	0.6 - 1.3 N	0.5 - 0.90 N	0.5 - 0.90 N	0.6 - 1.3 N
Lifting cap		●			●		
Zero setting		●					
Resolution selection		●					
PRESET = (max. ±999.99 mm)		●					
Min / max / delta display		●					
Selection of measuring direction		●					
Multiplication factor		●					
Output data		Bluetooth® wireless technology / RS232 / USB [4]					
IP rating		IP67					

[1] ± 1 digit
[2] Values ± 20%, indicator in vertical position, outgoing measuring spindle
[3] S = Standard P = Protected
[4] see cables chapter

Mini digital indicators S_Dial MINI Smart

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate for instruments with resolution 0.001 mm

MEASURING FORCE FOR RANGE 12.5 mm

	S	P
Standard	0.5 - 0.90 N	0.6 - 1.3 N
Low [1)]	0.35 - 0.50 N	---
High [1)]	1.80 - 2.3 N	---

Tolerance ±20%, indicator in vertical position, spindle in outgoing measurement.
[1)] on request

APPLICATIONS

Checking of an internal Ø with a mechanical device

Measurent of the vertical displacement of an element

Measurement of internal chamfer

Digital indicators

S_Dial WORK

DESCRIPTION

BASIC

B

- Simple and robust digital comparator with Ø 59.5 mm non-rotating housing
- One central button with favourite function to choose between preset recall or value transmission
- Selection of unit (mm/inch) and direction of measurement
- Proximity» and «Power» data outputs allowing the instrument to be used without batteries when connected by this cable.
- Available in version with display resolution 0.01 mm and 0.001 mm
- Measuring range selectable: 12.5, 25 and 50 mm

PROXIMITY

POWER

SWISS MADE

WATER RESISTANT

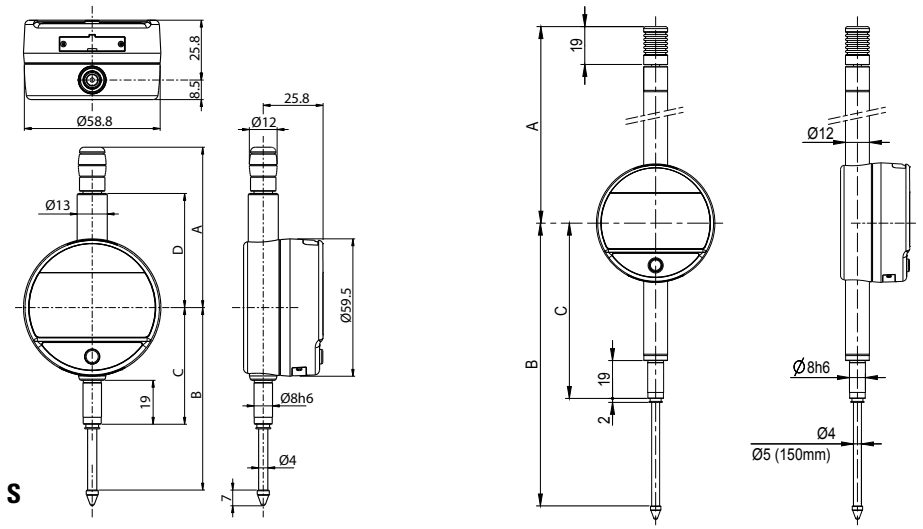
* SIS description on page 5

Digital indicators

S_Dial WORK

DIMENSIONAL DRAWINGS

BASIC



TECHNICAL SPECIFICATIONS

		805-1201	805-1301	805-1401	805-1501	805-1601	805-1621
Measuring range	mm	12.5	12.5	25	25	50	50
Resolution	mm	0.01	0.001	0.01	0.001	0.01	0.001
Max. MPE_E Indication Error	µm	10 [1]	**4**	10 [1]	**5**	20 [1]	**7**
Repeatability	µm	2					
IP rating		IP51					
A	mm	56.7		69.9		121.3	
B	mm	66.1		78.5		142	
C	mm	50.5		50.5		88	
D	mm	36.6		49.4		-	
Output data		USB / RS232					
Programmable by PC		●					
Standard functions (customized by PC)		Preset (max 999.999) only programmable by PC with cable, mm/inch, direction of measurement					

[1] ± 1 digit

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate for instruments 0.001 mm

MEASURING FORCE

		S 12.5	S 25	S 50
Standard	N	0.65 - 0.90	0.65 - 1.15	1.1 - 2.6
Low [3]	N	0.4 - 0.55	0.45 - 0.9	---
High [3]	N	1.0 - 1.6	0.9 - 1.8	---

Tolerance ± 20%, spindle in outgoing measurement position.
[3] on request

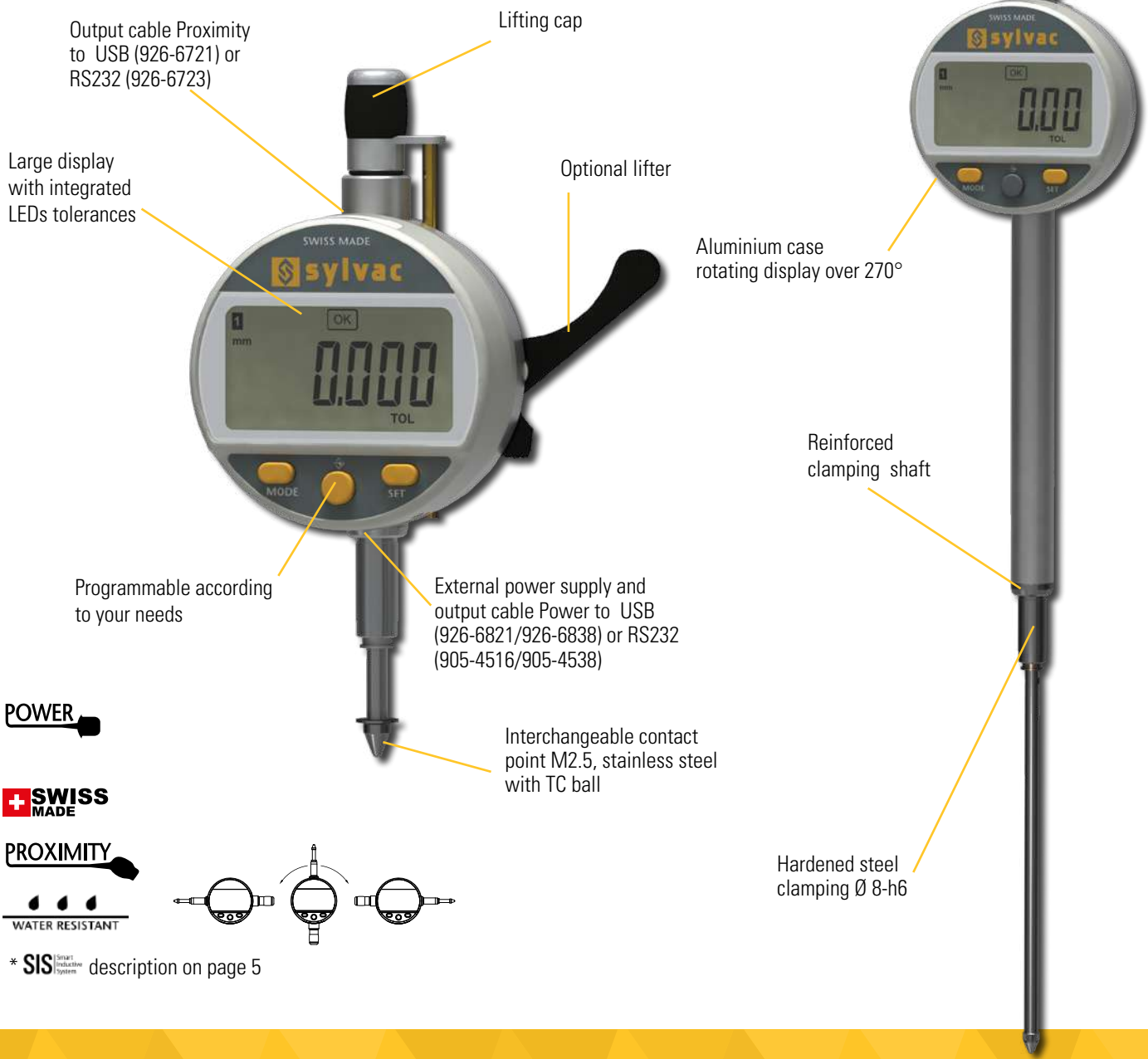
Digital indicators

S_Dial WORK

DESCRIPTION

ADVANCED

- Robust digital comparator with Ø 59.5 mm housing rotatable by 270°.
- Large display with colour LED tolerance status indication
- Three buttons, including the central button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA
- Proximity» and «Power» data outputs allowing the instrument to be used without batteries when connected by this cable.
- Available with display resolution 0.01 mm or 0.001 mm
- Measuring range selectable: 12.5, 25, 50, 100 and 150 mm
- The 12.5 and 25 mm versions are available in special low or high pressure versions on request.
- Protected IP54



POWER

SWISS MADE

PROXIMITY

WATER RESISTANT

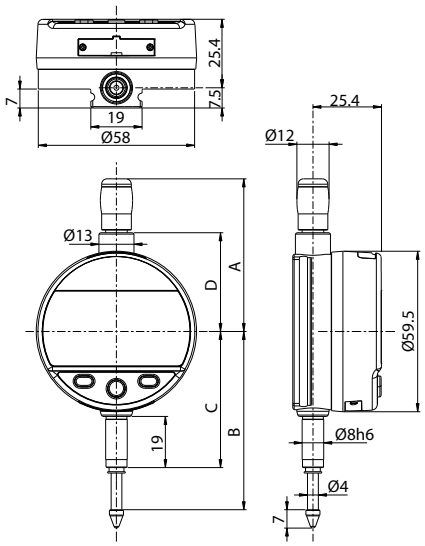
* SIS description on page 5

Digital indicators

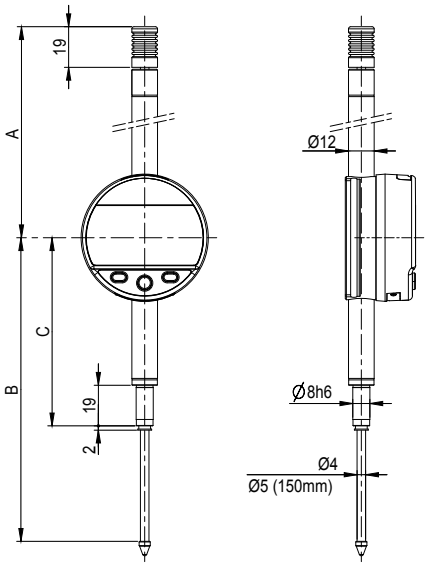
S_Dial WORK

DIMENSIONAL DRAWINGS

ADVANCED



S 12.5-25 mm



S 50-150 mm

TECHNICAL SPECIFICATIONS

		805-5201	805-5301	805-5401	805-5501	805-5601	805-5621	805-5641	805-5661	805-5671	805-5681
Measuring range	mm	12.5	12.5	25	25	50	50	100	100	150	150
Resolution	mm	0.01	0.001	0.01	0.001	0.01	0.001	0.01	0.001	0.01	0.001
Max. MPE_E Indication Error	µm	10 [1]	**3**	10 [1]	**4**	20 [1]	**5**	20 [1]	**6**	20 [1]	**10**
Repeatability	µm	2									
IP rating		IP54									
A	mm	56.7		69.4		121		172		224	
B	mm	66.1		78.5		142		244		349	
C	mm	50.5		50.5		88		139		193	
D	mm	36.6		49.4		-		-		-	
Output data		USB / RS232									
Programmable by PC		●									
Standard functions (customized by PC)		mm/inch, ref I/II, preset (max 999.999) min/max/delta, toleances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock									

[1] ± 1 digit

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate for instruments 0.001 mm

MEASURING FORCE

		12.5	25	50	100	150
Standard	N	0.65 - 0.9	0.65 - 1.15	1.1 - 2.6	1.8 - 3.8	2.6 - 5.7
Low [2]	N	0.4 - 0.55	0.45 - 0.9	---	---	---
High [2]	N	1.0 - 1.6	0.9 - 1.8	---	---	---

Tolerance ± 20%, spindle in outgoing measurement position.
[2] on request

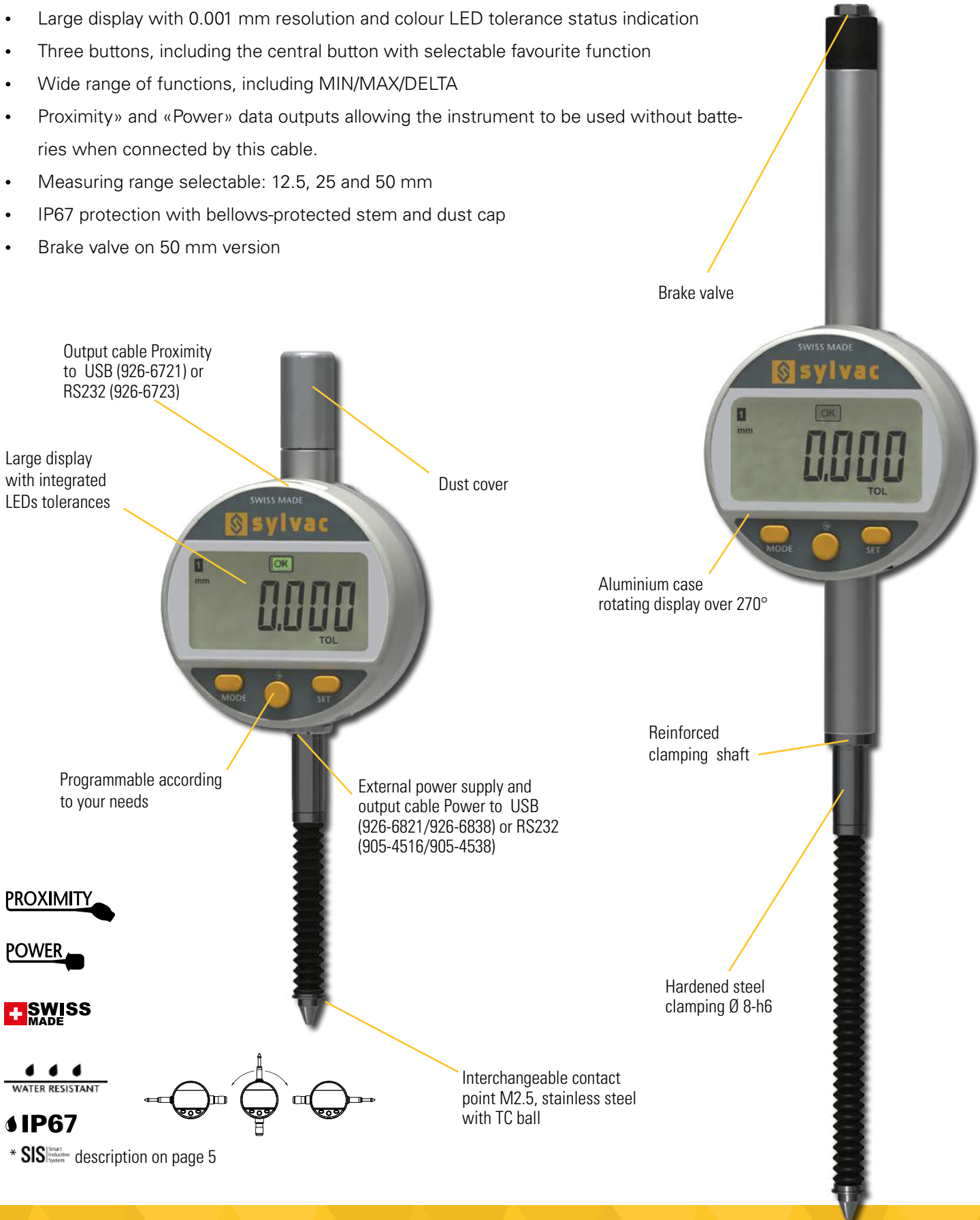
Digital indicators

S_Dial WORK

DESCRIPTION

ADVANCED IP67

- Robust digital comparator with Ø 59.5 mm housing rotatable by 270°.
- Large display with 0.001 mm resolution and colour LED tolerance status indication
- Three buttons, including the central button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA
- Proximity» and «Power» data outputs allowing the instrument to be used without batteries when connected by this cable.
- Measuring range selectable: 12.5, 25 and 50 mm
- IP67 protection with bellows-protected stem and dust cap
- Brake valve on 50 mm version



PROXIMITY

POWER

SWISS MADE

WATER RESISTANT

IP67

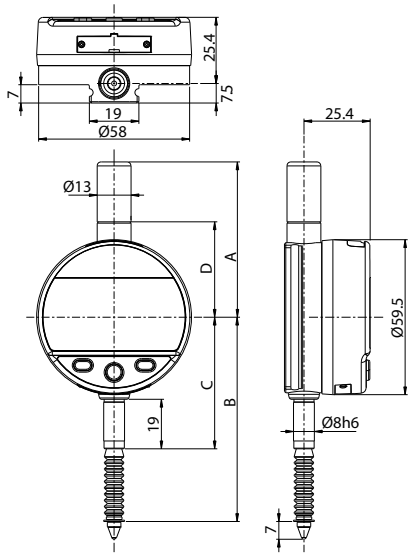
* SIS description on page 5

Digital indicators

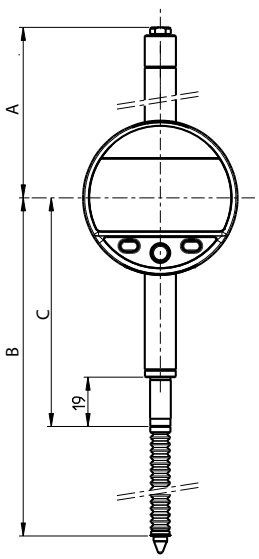
S_Dial WORK

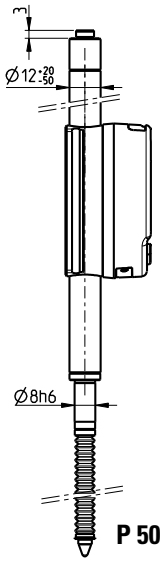
DIMENSIONAL DRAWINGS

ADVANCED IP67



P 12.5-25 mm





P 50 mm

TECHNICAL SPECIFICATIONS

		805-5305	805-5505	805-5625
Measuring range	mm	12.5	25	50
Resolution	mm	0.001	0.001	0.001
Max. MPE_E Indication Error	µm	**3**	**4**	**5**
Repeatability	µm	2		
IP rating		IP67		
A	mm	59.6	85.4	104.4
B	mm	78.4	99.7	175.3
C	mm	50.5	50.5	88
D	mm	36.6	49.4	-
Output data		USB / RS232		
Programmable by PC		●		
Standard functions (customized by PC)		mm/inch, ref I/II, preset (max 999.999) min/max/delta, toleances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock		

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate for instruments 0.001 mm

MEASURING FORCE

		P 12.5	P 25	P 50
Standard	N	0.7 – 1.4	0.65 – 1.8	0.9 – 2.8
Low [2]	N	---	---	---
High [2]	N	---	---	---

Tolerance ± 20%, spindle in outgoing measurement position.
[2] on request

Digital indicators

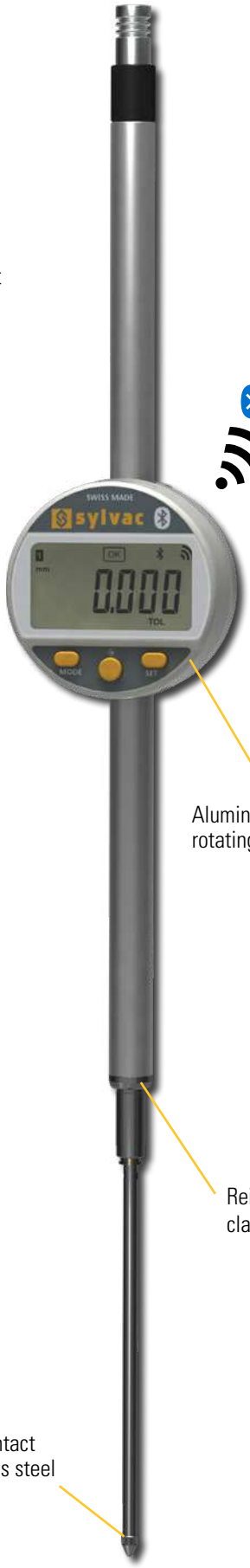
S_Dial WORK

DESCRIPTION

SMART

B

- Robust digital comparator with Ø 59.5 mm housing rotatable by 270°.
- Display of 0.001 mm and 0.0001 mm resolution on model 805-6301 and 805-6501
- Integrated Bluetooth® system
- Large display with colour LED tolerance status indication
- Three buttons, including the central button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA
- Proximity» and «Power» data outputs allowing the instrument to be used without batteries when connected by this cable.
- Measuring range selectable: 12.5, 25, 50 and 100 mm
- Protection class IP54



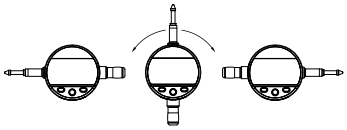
Built-in Bluetooth®

PROXIMITY

POWER

SWISS MADE

WATER RESISTANT



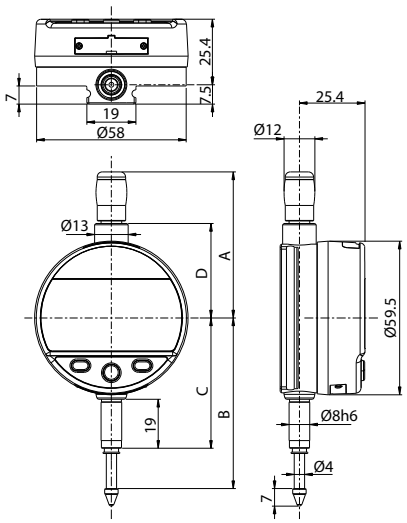
* SIS description on page 5

Digital indicators

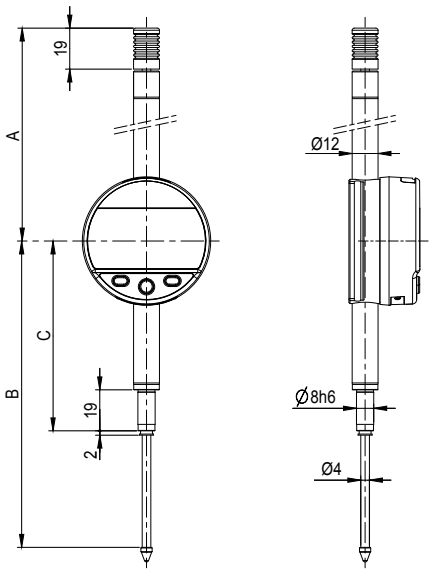
S_Dial WORK

DIMENSIONAL DRAWINGS

SMART



S 12.5 - 25



S 50 - 100

TECHNICAL SPECIFICATIONS

		805-6301	805-6501	805-6621	805-6661
Measuring range	mm	12.5	25	50	100
Resolution	mm	0.0001	0.0001	0.001	0.001
Max. MPE_E Indication Error	µm	**3**	**4**	**5**	**6**
Repeatability	µm	0.8		2	
IP rating		IP54			
A	mm	56.7	69.4	121	172
B	mm	66.1	78.5	142	244
C	mm	50.5	50.5	88	139
D	mm	36.6	49.4	-	-
Output data		USB / RS232 / Bluetooth® wireless technology			
Programmable by PC		●			
Standard functions (customized by PC)		mm/inch, ref I/II, preset (max 999.999) min/max/delta, toleances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock			

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate for instruments 0.001 mm

MEASURING FORCE

		12.5	25	50	100
Standard	N	0.65 - 0.90	0.65 - 1.15	1.1 - 2.6	1.8 – 3.8
Low [2]	N	0.4 - 0.55	0.45 - 0.9	---	---
High [2]	N	1.0 - 1.6	0.9 - 1.8	---	---

Tolerance ± 20%, spindle in outgoing measurement position.
[2] on request

Digital indicators

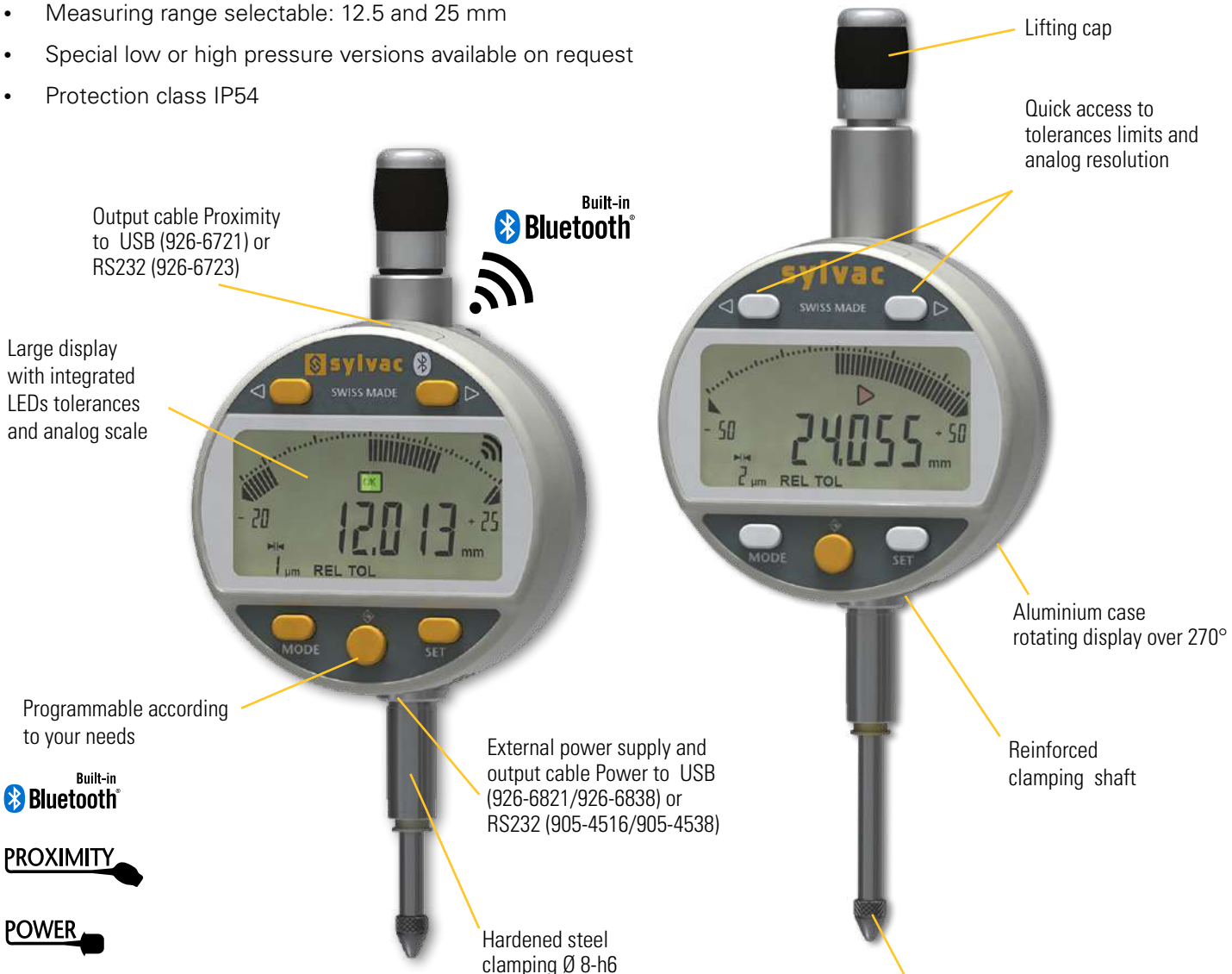
S_Dial WORK

DESCRIPTION

ANALOG & ANALOG SMART

B

- Robust digital comparator with Ø 59.5 mm housing rotatable by 270°.
- Integrated Bluetooth® system on Smart model
- Large display with 0.001 mm resolution (0.0001 mm on 805-6308) and colour LED tolerance status indication
- Analogue display with selectable scale (from 0.2 µm per division)
- Three buttons, including the central button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA
- Proximity» and «Power» data outputs allowing the instrument to be used without batteries when connected by this cable.
- Measuring range selectable: 12.5 and 25 mm
- Special low or high pressure versions available on request
- Protection class IP54



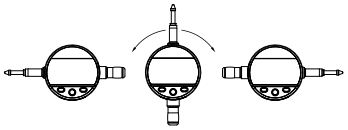
Built-in Bluetooth

PROXIMITY

POWER

SWISS MADE

WATER RESISTANT



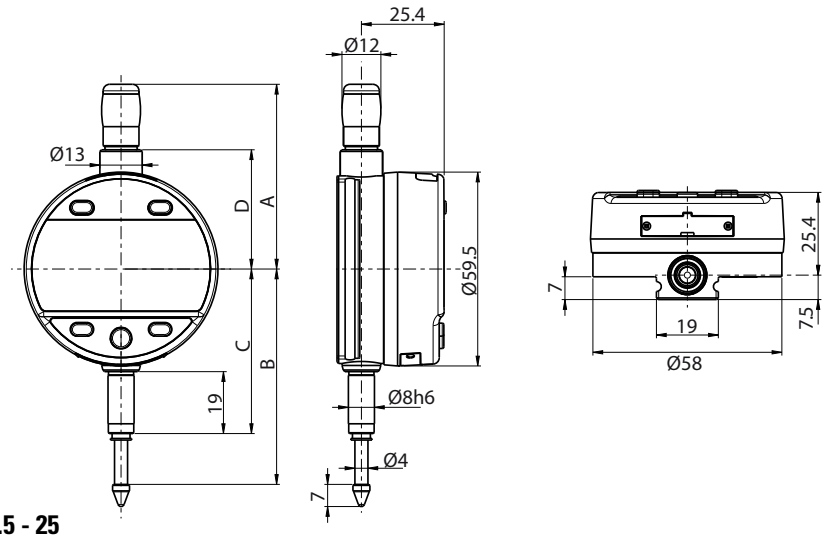
* SIS description on page 5

Digital indicators

S_Dial WORK

DIMENSIONAL DRAWINGS

ANALOG & ANALOG SMART



S 12.5 - 25

TECHNICAL SPECIFICATIONS

		805-5307	805-5507	805-6308
Measuring range	mm	12.5	25	12.5
Resolution	mm	0.001		0.0001
Max. MPE_E Indication Error	µm	**3**	**4**	**3**
Repeatability	µm	2		0.8
IP rating		IP54		
A	mm	56.7	69.4	56.7
B	mm	66.1	78.5	66.1
C	mm	50.5	50.5	50.5
D	mm	36.6	49.4	36.6
Output data		USB / RS232		USB / RS232 / Bluetooth®
Programmable by PC		●		
Standard functions (customized by PC)		mm/inch, preset (max 999.999) min/max/delta, tolerances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock		

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate

MEASURING FORCE

		S 12.5	S 25
Standard	N	0.65 - 0.90	0.65 - 1.15
Low [2]	N	0.4 - 0.55	0.45 - 0.9
High [2]	N	1.0 - 1.6	0.9 - 1.8

Tolerance ± 20%, spindle in outgoing measurement position.

[2] on request

Digital indicators

S_Dial WORK

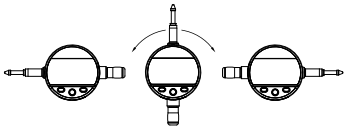
DESCRIPTION

CBG

B

- Special version for cylindrical bore gauges
- Data output Power, Proximity & Bluetooth®
- Introduction of the Preset value on the saved Min value
- Quick measure of the reversal point
- Robust construction
- Water and coolant resistant
- Broad choice of functions (MIN/MAX/DELTA, TOL, PRESET, AUTO OFF, etc.)
- Automatic wake-up and sleeping mode, Absolute System S.I.S*
- Maximum error of 3 µm

Accessory not included



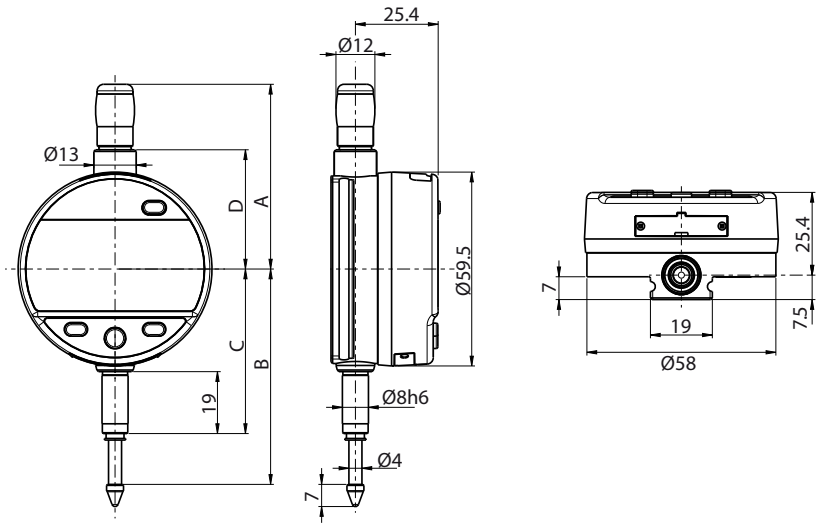
* SIS description on page 5

Digital indicators

S_Dial WORK

DIMENSIONAL DRAWINGS

CBG



TECHNICAL SPECIFICATIONS

		805-6317
Measuring range	mm	12.5
Resolution	mm	0.001
Max. MPE_E Indication Error	µm	**3**
Repeatability	µm	2
IP rating		IP54
A	mm	56.7
B	mm	66.1
C	mm	50.5
D	mm	36.6
Output data		USB / RS232 / Bluetooth® wireless technology
Programmable by PC		●
Standard functions (customized by PC)		mm/inch, preset (max 999.999) min/max/delta, tolerances, resolution, multiplication factor, automatic or manual switch off

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate

MEASURING FORCE

		S 12.5
Standard	N	0.65 - 0.90
Low [2]	N	0.4 - 0.55
High [2]	N	1.0 - 1.6

Tolerance ± 20%, spindle in outgoing measurement position.
[2] on request

Digital indicators

S_Dial WORK

DESCRIPTION

NANO & NANO SMART

B

- Robust digital comparator with Ø 59.5 mm housing rotatable by 270°.
- Integrated Bluetooth® system on Smart model
- Large display resolution 0.0001 mm (0.1 µm) with tolerance status indication by colour LEDs
- High accuracy and repeatability
- Three buttons, including the central button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA
- Proximity» and «Power» data outputs allowing the instrument to be used without batteries when connected by this cable.
- Measuring range selectable: 12.5 and 25 mm
- Special low or high pressure versions available on request
- Protection class IP54

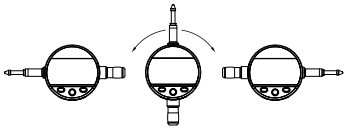
PROXIMITY

POWER

Built-in Bluetooth

SWISS MADE

WATER RESISTANT



* SIS description on page 5

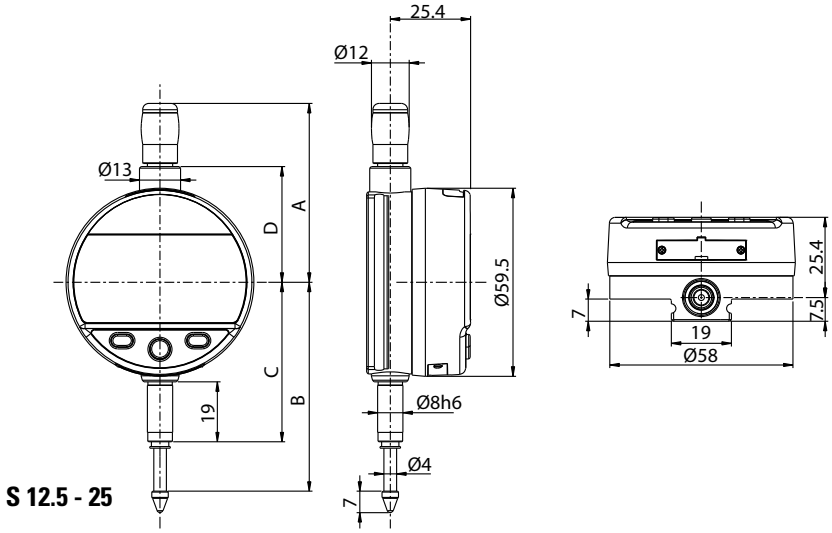
Max error 1.2 µm
Repeatability 0.3 µm

Digital indicators

S_Dial WORK

DIMENSIONAL DRAWINGS

NANO & NANO SMART



TECHNICAL SPECIFICATIONS

		805-5306	805-5506	805-6306	805-6506
Measuring range	mm	12.5	25	12.5	25
Resolution	mm	0.0001	0.0001	0.0001	0.0001
Max. MPE_E Indication Error	µm	**1.2**	**1.6**	**1.2**	**1.6**
Repeatability	µm	0.3			
IP rating		IP54			
A	mm	56.7	69.4	56.7	69.4
B	mm	66.1	78.5	66.1	78.5
C	mm	50.5	50.5	50.5	50.5
D	mm	36.6	49.4	36.6	49.4
Output data		USB / RS232		USB / RS232 / Bluetooth® wireless technology	
Programmable by PC		●			
Standard functions (customized by PC)		mm/inch, ref I/II, preset (max 999.999) min/max/delta, toleances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock			

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate

MEASURING FORCE

		S 12.5	S 25
Standard	N	0.65 - 0.90	0.65 - 1.15
Low [2]	N	0.4 - 0.55	0.45 - 0.9
High [2]	N	1.0 - 1.6	0.9 - 1.8

Tolerance ± 20%, spindle in outgoing measurement position.

[2] on request

Digital indicators

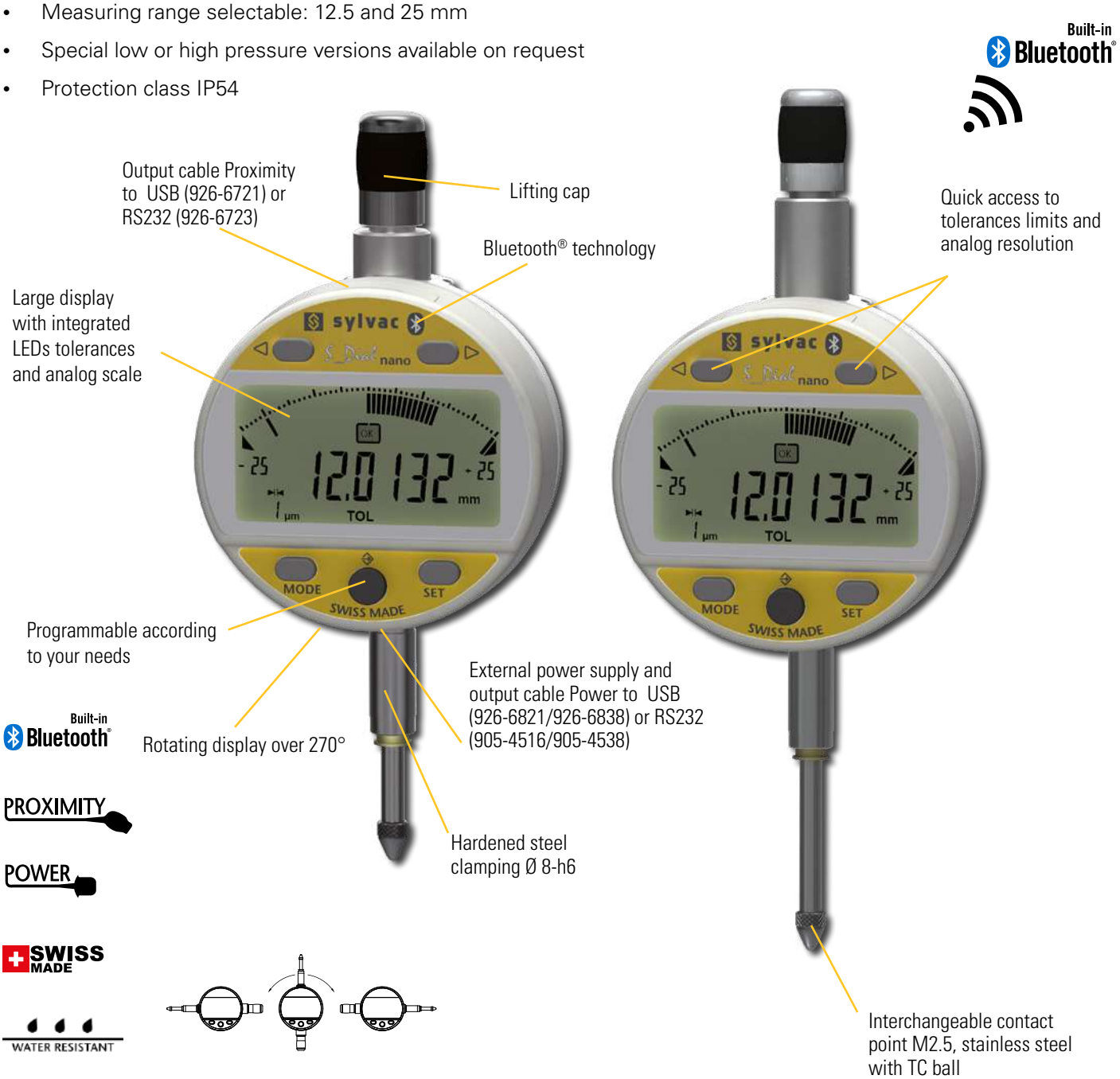
S_Dial WORK

DESCRIPTION

ANALOG NANO SMART

B

- Robust digital comparator with Ø 59.5 mm housing rotatable by 270°.
- Integrated Bluetooth® system on Smart model
- Large display resolution 0.0001 mm (0.1 µm) with tolerance status indication by colour LEDs
- High accuracy and repeatability
- Five buttons, including the central button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA
- Proximity» and «Power» data outputs allowing the instrument to be used without batteries when connected by this cable.
- Measuring range selectable: 12.5 and 25 mm
- Special low or high pressure versions available on request
- Protection class IP54



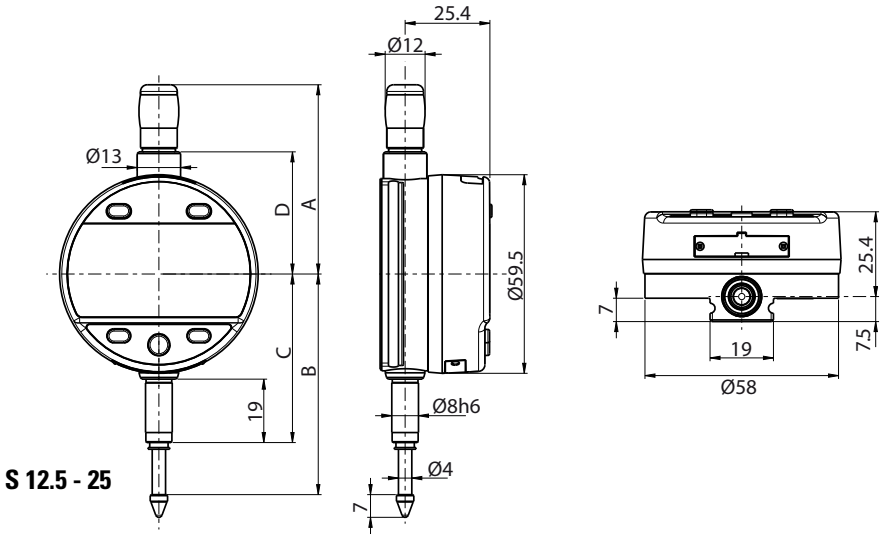
* SIS description on page 5

Digital indicators

S_Dial WORK

DIMENSIONAL DRAWINGS

ANALOG NANO SMART



TECHNICAL SPECIFICATIONS

		805-6307	805-6507
Measuring range	mm	12.5	25
Resolution	mm	0.0001	
Max. MPE_E Indication Error	µm	**1.2**	**1.6**
Repeatability	µm	0.3	
IP rating		IP54	
A	mm	56.7	69.4
B	mm	66.1	78.5
C	mm	50.5	50.5
D	mm	36.6	49.4
Output data		USB / RS232 / Bluetooth® wireless technology	
Programmable by PC		●	
Standard functions (customized by PC)		mm/inch, preset (max 99.9999 or 999.999) min/max/delta, tolerances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock	

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate

MEASURING FORCE

		S 12.5	S 25
Standard	N	0.65 - 0.90	0.65 - 1.15
Low [2]	N	0.4 - 0.55	0.45 - 0.9
High [2]	N	1.0 - 1.6	0.9 - 1.8

Tolerance ± 20%, spindle in outgoing measurement position.

[2] on request

Digital indicators

S_Dial WORK

DESCRIPTION

PLC

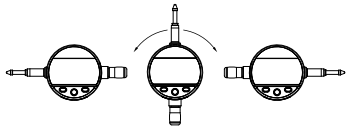
- Robust digital comparator with Ø 59.5 mm housing rotatable by 270°.
- Instrument for automation and robotics
- Large display resolution 0.01 mm or 0.001 mm with tolerance status indication by colour LEDs
- Three buttons, including the central button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA
- Data outputs «Open connector» for using the instrument without batteries (powered by the device) and «Proximity».
- Selection of the communication protocol to be chosen between ASCII, MODBUS and ORBIT
- Measuring range selectable: 12.5 and 25 mm
- Special low or high pressure versions available on request
- Protection IP54 for the 0.01 mm resolution version and IP67 for the 0.001 mm resolution version

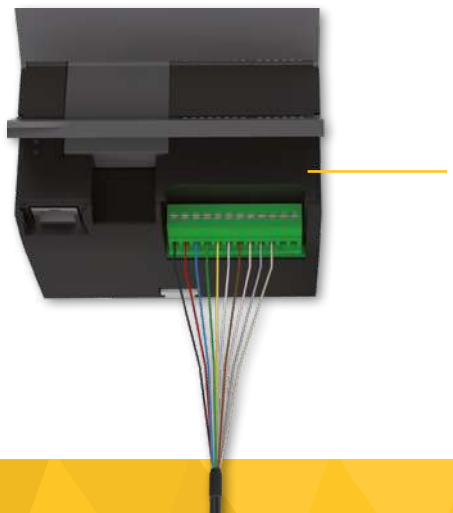
PLC

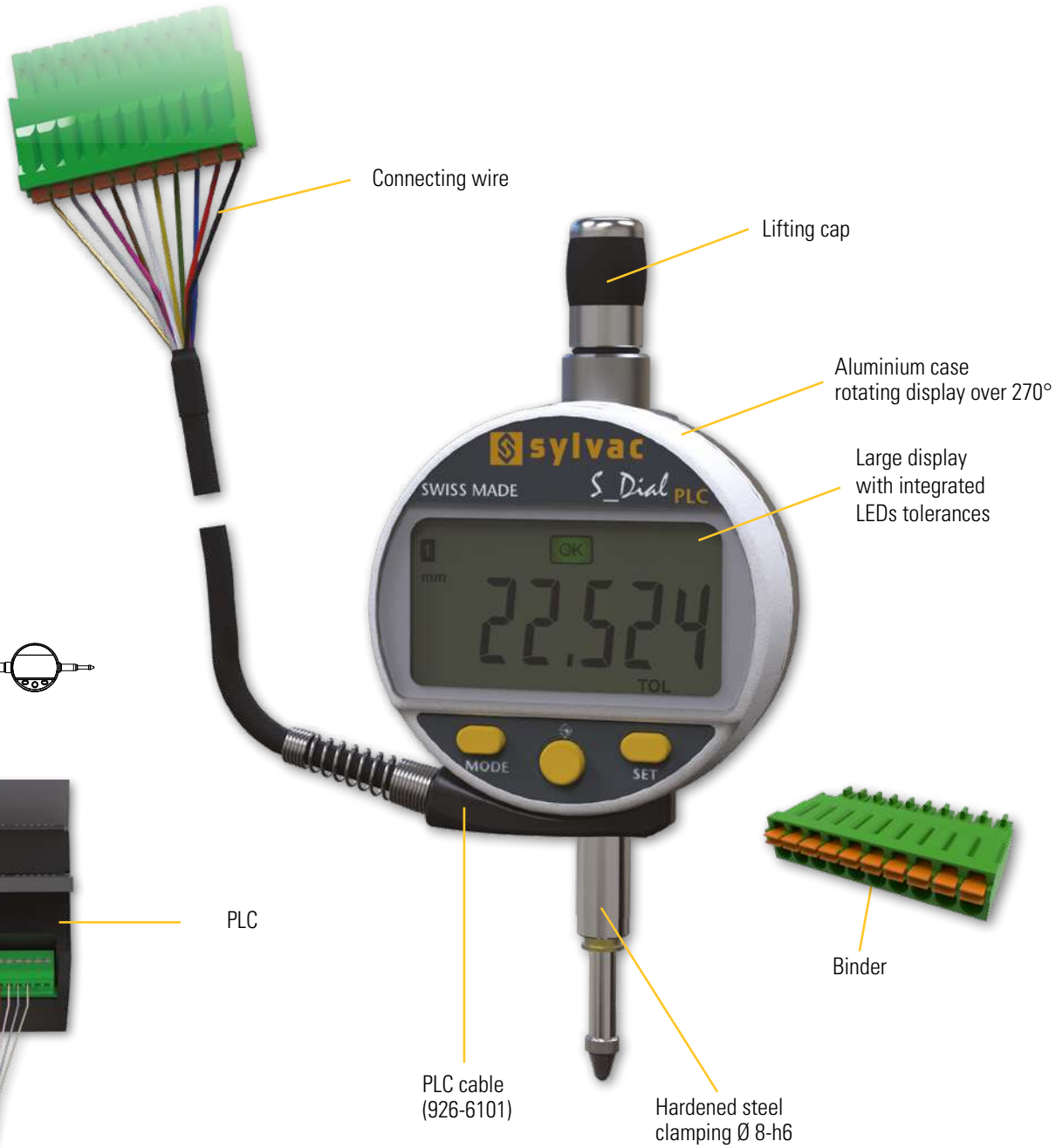
SWISS MADE

WATER RESISTANT

IP67

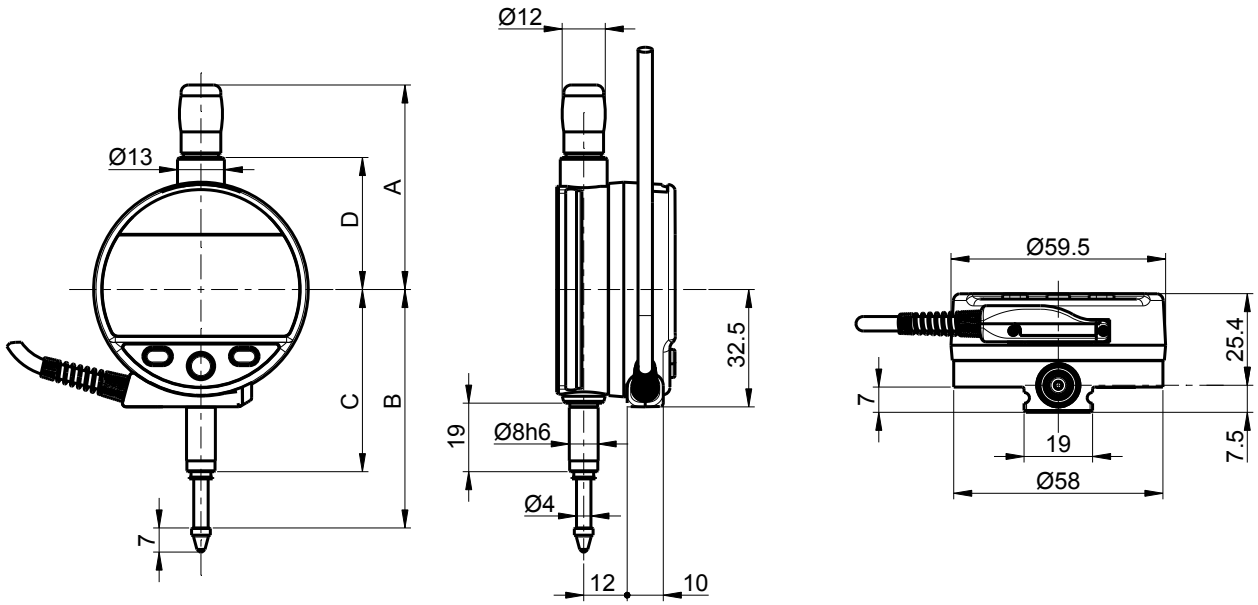






Digital indicators S_Dial WORK

DIMENSIONAL DRAWINGS PLC



TECHNICALS SPECIFICATIONS

		805-7301	805-7201	805-7501	805-7401
Measuring range	mm	12.5	12.5	25	25
A	mm	56.7		69.4	
B	mm	66.1		78.5	
C	mm	50.5		50.5	
D	mm	36.6		49.4	
Resolution	mm	0.001	0.01	0.001	0.01
Max. MPE_E Indication Error	µm	4	10	5	10
Repeatability	µm	2			
Output data		PLC cable / RS232 (Proximity) and RS485 (cable) compatible			
Data bus		RS485 compatible / Charge 1/256 (Protocole MODBUS, ASCII or ORBIT)			
Measuring force	N	0.65 - 0.9		0.65 - 1.15	
IP rating		IP67	IP54	IP67	IP54
Clamping		Ø8h6, interchangeable anvil probe M2.5			
Standard functions (customizable by PC)		mm/inch, ref I/II, preset (max 999.999) min/max/delta, tolerances, resolution, measuring direction, multiplier, keylock			

INSTRUMENT DE BASE

- Instrument according to technical specifications
- PLC cable (5m) + binder included
- Manual
- Calibration certificate

Digital indicators

S_Dial PRO

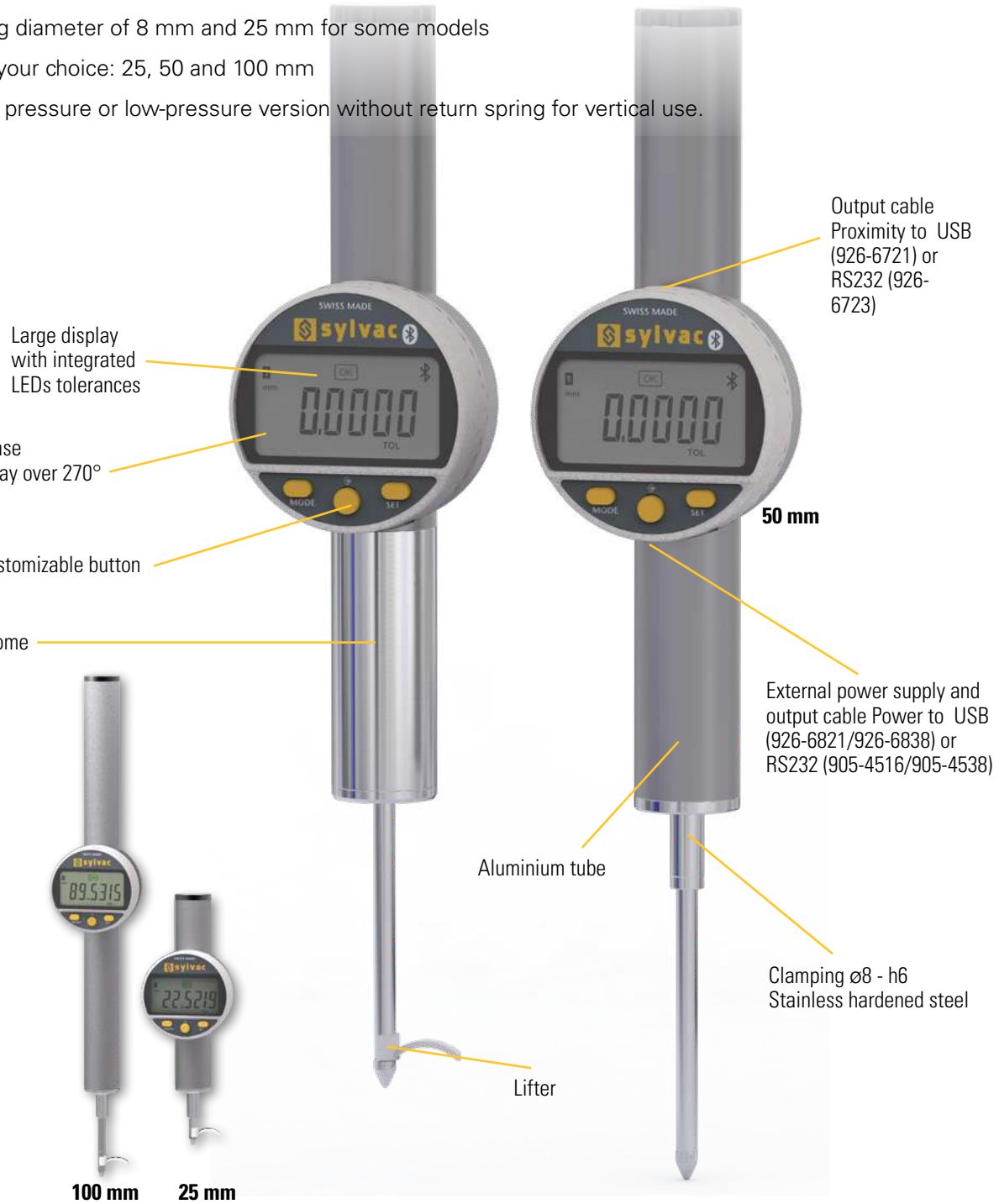
DESCRIPTION

SMART

B

- Robust digital comparator with Ø 59.5 mm housing rotatable by 270°.
- Large display resolution 0.0001 mm (0.1 µm) with tolerance status indication by colour LEDs
- High accuracy over the entire measuring range thanks to an electronically corrected scale system with reference marks
- Measuring error less than 1.2 µm over 50 mm
- Three buttons, including the central button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA
- Bluetooth®, Proximity» and «Power» data outputs allowing the instrument to be used without batteries when connected by this cable.
- Available with a fixing diameter of 8 mm and 25 mm for some models
- Measuring range of your choice: 25, 50 and 100 mm
- Available in standard pressure or low-pressure version without return spring for vertical use.
- Protection class IP51

Built-in Bluetooth



Built-in Bluetooth

PROXIMITY

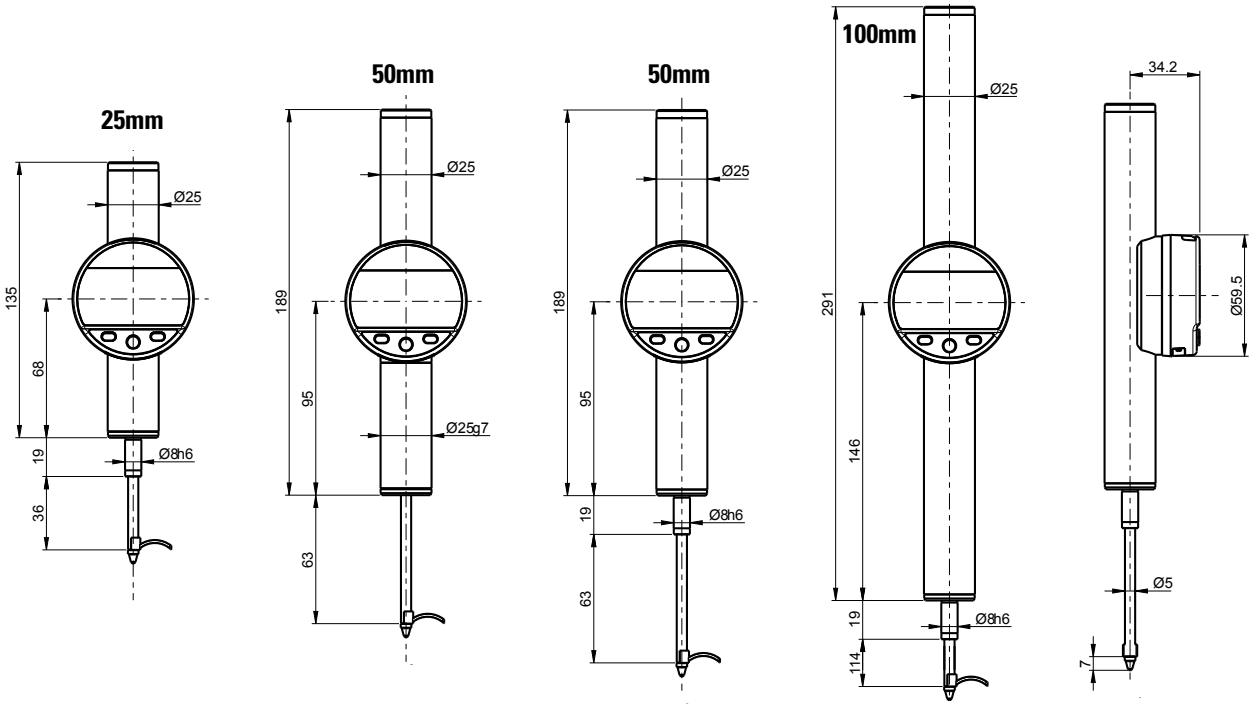
POWER

SWISS MADE

WATER RESISTANT

Digital indicators S_Dial PRO

DIMENSIONAL DRAWINGS SMART



TECHNICALS SPECIFICATIONS

		805-8501	805-8502	805-8601	805-8701	805-8602	805-8702	805-8661
Measuring range	mm	25		50				100
Resolution	mm	0.0001						
Max. MPE_E Indication Error	µm	**1.0**		**1.2**				**1.8**
Repeatability	µm	0.2						
Output data		USB / RS232 / Bluetooth® wireless technology						
Programmable by PC		●						
Clamping		ø8 h6				ø25 g7		ø8 h6
Spring		●	[1]	●	[1]	●	[1]	●
Measuring force	N	0.75 - 1.00 [2]	0.30 [2]	0.85 - 1.2 [2]	0.40 [2]	0.85 - 1.2 [2]	0.40 [2]	0.90 - 1.30 [2]
IP rating		IP51						
Standard functions (customizable by PC)		mm/inch, ref I/II, preset (max 99.9999) min/max/delta, tolerances, resolution, measuring direction, multiplier, automatic extinction/manual, keylock						

[1] Model without spring : Constant measuring force, use only in a vertical position
[2] The values agree within ± 20% (vertical down, measuring rod outgoing)

INSTRUMENT DE BASE

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Lifter included
- Manual
- Calibration certificate

Digital indicators

S_Dial

APPLICATIONS

Measurement of a span with S_Dial WORK equipped with measuring ball probe 905-2207

S_Dial WORK CBG measuring with bore gauge system

S_Dial WORK mounted on a Sylvac PS15 bench

S_Dial WORK Smart working in duplex mode and connected to D300S to measure concentricity, roundness, etc.

S_Dial WORK PLC connected to a PLC

S_Dial WORK Analog used on bore gauge system

Indicators with Bluetooth® Wireless technology on a 4 points jig

Indicators with Bluetooth® Wireless technology on an iPad through the Sylvac BT Smart App

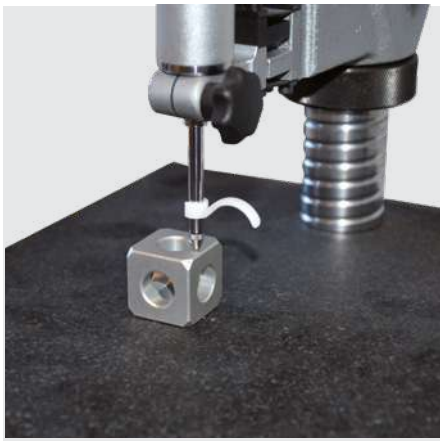
S_Dial PRO on ceramic stand

Digital indicators

S_Dial

LIFTING DEVICES

Lower lifting lever, type 905-4214



Lifting device on S_Dial PRO Basic

Upper lifting device type 905-4215

Pneumatic lifting device type 905-2218

Vacuum lifting device type 905-2220

Lifting device with photo-cable type 905-2216

Lifting device type 905-2214

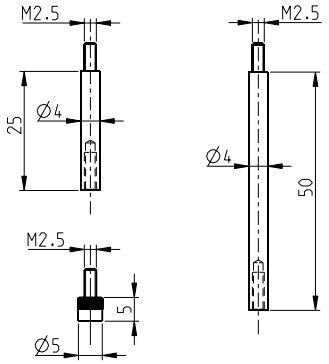
Lifting device on S_Dial WORK Smart

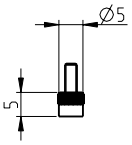
Upper lifting lever type, 905-2215

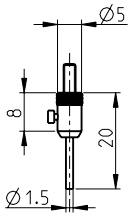
ACCESSORIES

B

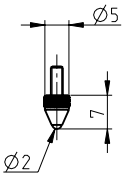
Contact points M2.5

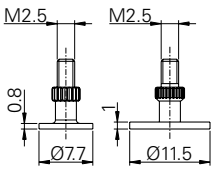


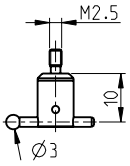




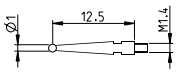
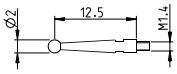
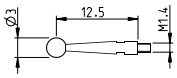
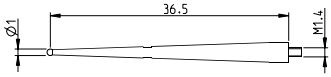
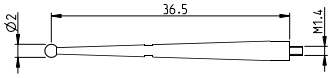
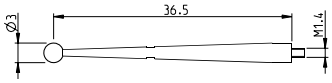
			S_Dial Mini	S_Dial TEST (805-4321)	S_Dial TEST (805-4322)	S_Dial TEST (805-4323)	S_Dial WORK 12,5 - 25 mm	S_Dial WORK 50 - 150 mm	S_Dial PRO
905-2201 (carbide)	**905-2202**	**905-2203**	•				•	•	•



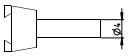


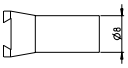


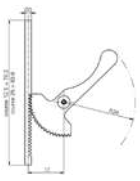
905-2206	**905-2204**	**905-2205**	**905-2207**	•				•	•	•

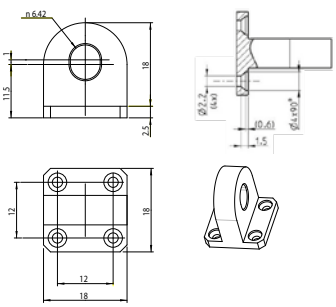
	**905-2240**	Short stylus, TC ball		•		•			
	**905-2241**	Short standard stylus, TC ball		•		•			
	**905-2242**	Short stylus, TC ball		•		•			
	**905-2243**	Long stylus, TC ball			•	•			
	**905-2244**	Long standard stylus, TC ball			•	•			
	**905-2245**	Long stylus, TC ball			•	•			

ACCESSORIES







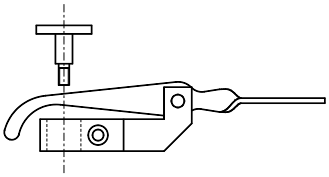


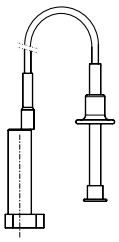
		S_Dial Mini	S_Dial TEST	S_Dial WORK 12,5 - 25 mm	S_Dial WORK 50 - 150 mm
905-2246	Clamping stem	●	●		
905-2247	Clamping stem	●	●		
905-2248	Spanner for probe		●		
805-0214	Lifting device, range 12.5mm			● [1]	
805-0215	Lifting device, range 25mm			● [1]	
805-0213	Lug back (delivered with 4 screws M2x4 DIN 963A)			● [1]	● [1]
905-2231	Sleeve Ø8 --> 10mm with locking screw	●	●	●	●
905-4212	Screwdriver for S_Dial MINI & TEST	●	●		

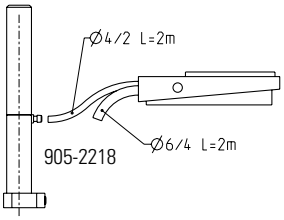
[1] Except S_Dial WORK Basic

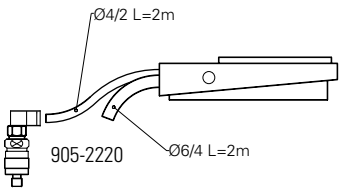
ACCESSORIES

B

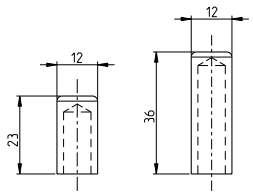
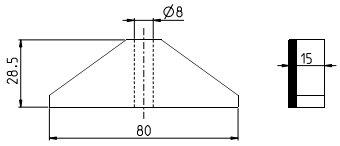
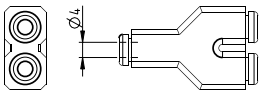
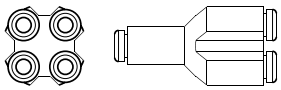
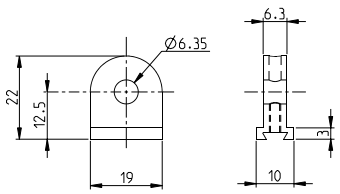
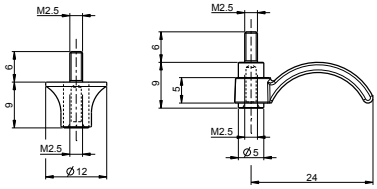






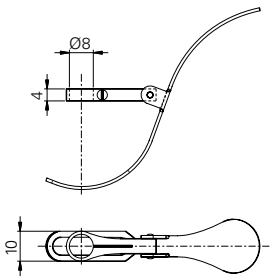


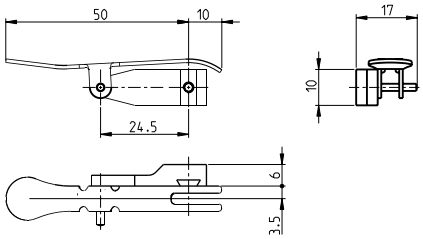
		S_Dial Mini	S_Dial TEST	S_Dial WORK 12,5 - 25 mm	S_Dial WORK 50 - 150 mm	S_Dial PRO
905-2214	Lifting device	•		•	•	•
905-2215	Upper lifting device			•		
905-2216	Lifting device with photo-cable			•		
905-2218	Pneumatic lifting device with foot pedal			•		
905-2217	Lifter only for 905-2218			•		
905-2219	Pneumatic foot pedal for 905-2218	•		•		
905-2220	Vacuum lifting device with foot pedal				•	
905-2227	Pressure controller				•	
905-2228	Vacuum foot pedal for 905-2220				•	

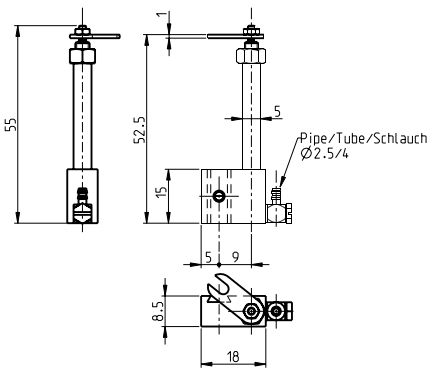
		S_Dial Mini	S_Dial TEST	S_Dial WORK 12,5 - 25 mm	S_Dial WORK 50 - 150 mm	S_Dial PRO
	**905-2221** Dust protection for indicator, range 12.5 mm			•		
	905-2222 Dust protection for indicator, range 25 mm			•		
	**905-2223** Depth measuring base			•	•	
	**905-2261** Snap connector for pneumatic lifter x2	•		•	•	
	**905-2262** Snap connector for pneumatic lifter x4	•		•	•	
	**905-4211** Center lug back	•	•			
	**905-2224** Plastic lifting lever (bottom)	•		•	•	•
	905-2225 Plastic lifting ring (bottom)	•		•	•	•

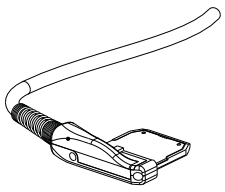
ACCESSORIES

B









		S_Dial Mini	S_Dial TEST	S_Dial WORK 12,5 - 25 mm	S_Dial WORK 50 - 150 mm	S_Dial WORK PLC
905-4214	Lower lifting device, range 12.5 mm	●	1)	1)	1)	1)
905-4215	Upper lifting device for S (Standard) execution	●				
905-4217	Pneumatic lifting device for standard type	●				
926-6101	Replacement cable for digital indicator PLC					●

1) used on range 20 mm max

Digital indicator testing stand M3

DESCRIPTION

- Set for the periodic calibration of analogue and digital comparators up to 50 mm stroke as well as for lever indicators
- Set consisting of the M3 bench that can be used vertically or horizontally, the reference instrument and the Sycopro 3 software integrating several international standards.
- Bench with rapid manual movement and fine final approach
- Available in 2 versions, with different reference instruments and different measuring ranges :
  - Set with probe P25D M8 25mm paired with display unit D62S (max. error 0.8 µm)
  - Set with probe P25D USB 25mm (max. error 0.8 µm)
  - Set with precision digital indicator with integrated display, 50 mm (max. error 1.2 µm)
- Calibration according to the ABBE principle
- Real-time display of instrument status
- Creation of customised test certificates

B

POWER

Kit M3 with digital indicator : output cable Power to USB (926-6821 / 926-6838)

M8

Kit M3 with probe and D62S : direct output M8

SWISS MADE

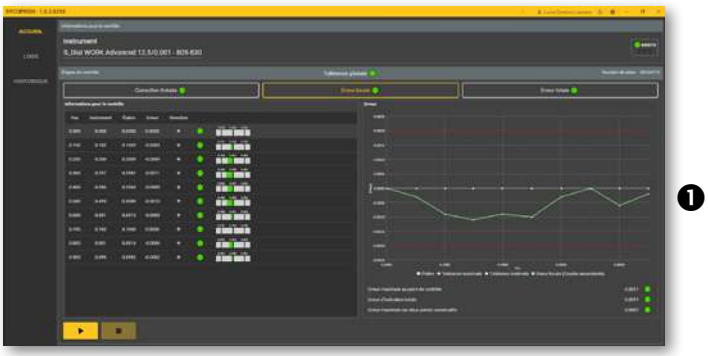
1) PC not included

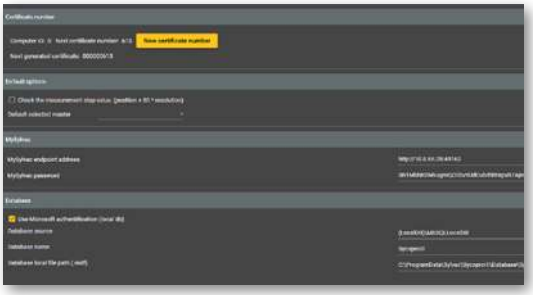
Digital indicator testing stand M3

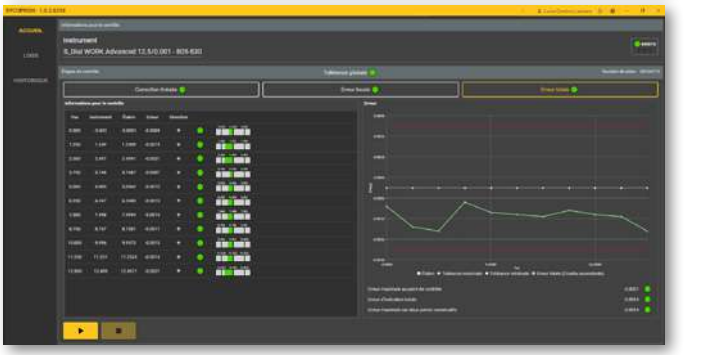
DISPLAY/SOFTWARE

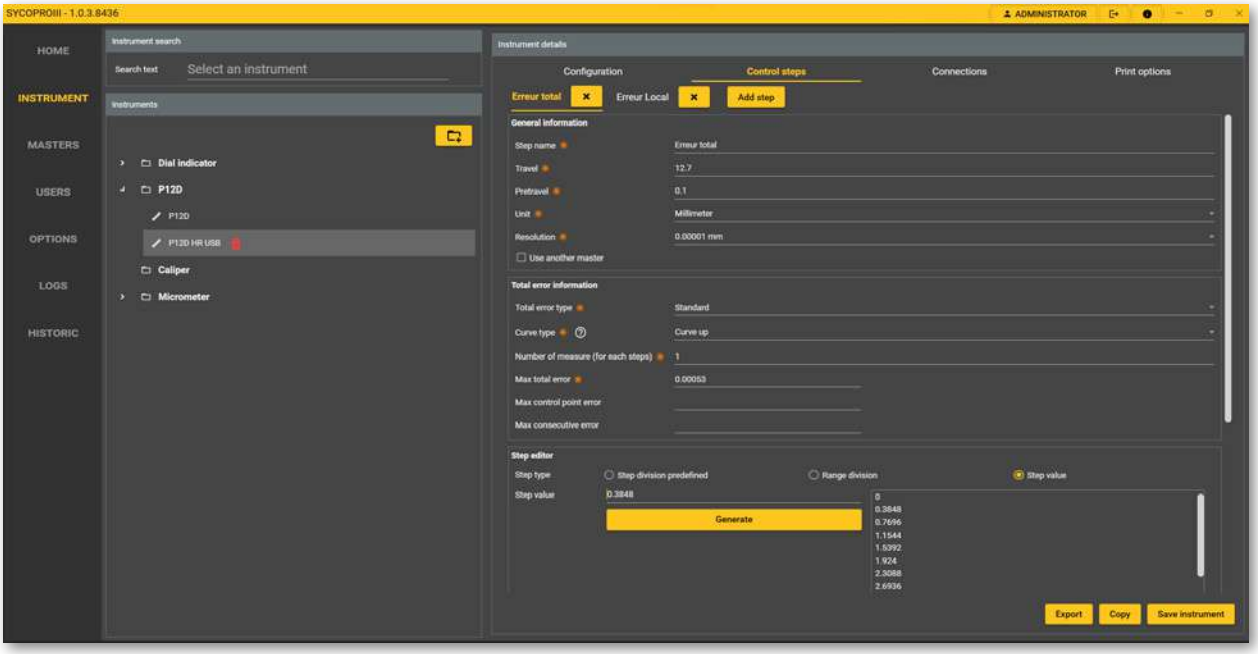
B

1. **Display the curves of measurement**
2. **Check the local error and repeatability**
3. **Check the total error**
4. **Creation and management of instrument groups**
5. **Fast access to all of stored instruments**
6. **Display the measured values**
7. **Sending certificates in MySylvac**









TECHNICAL SPECIFICATIONS

		Kit with probe P25D M8 and D62S	Kit with probe P25D USB	Kit with digital indicator S_Dial PRO 50mm
		809-1311	809-1312	809-1313
Measuring range	mm	25	25	50
Max. Error	µm	0.8	0.8	1.2
Data output		M8	USB	Power to USB

Digital indicator testing stand M3

TECHNICAL SPECIFICATIONS

		Probe P25D for M3	S_Dial PRO for M3
		801-1260-00	805-8609
Measuring range	mm	25	50
Max. Error	µm	0.8	1.2
Force	N	0.9 – 1.4	1.2 - 2.3

B

STANDARD DELIVERY

- M3 support
- 3 ceramic shims precision DIN861 Grade 1: 2 x 1.5 mm and 1 x 4 mm
- Software Sycopro 3 software and its activation licence
- Accessory 909-2010 for the control of lever indicators

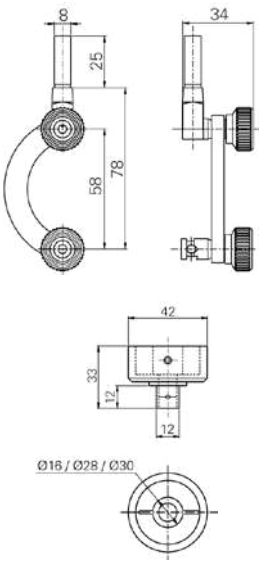
Set with probe and units

- Display unit D62S
- Charging unit according to country
- External contact (pedal) 904-4101
- Cable M8 for P25D C310-510-100
- P25D HR with special measuring force 801-1260-00
- Software Sycopro 3 software and its activation licence

Set with precision digital indicator

- P25D HR with special measuring force 801-1260-00
- External USB footswitch 926-7020
- Cable P25D USB C310-510-200
- Software Sycopro 3 software and its activation licence

ACCESSORIES



909-2010	Clamping device for test indicator
909-2011	Clamping device for dial gauges Ø 16 / 28 / 30 mm

Measuring stands

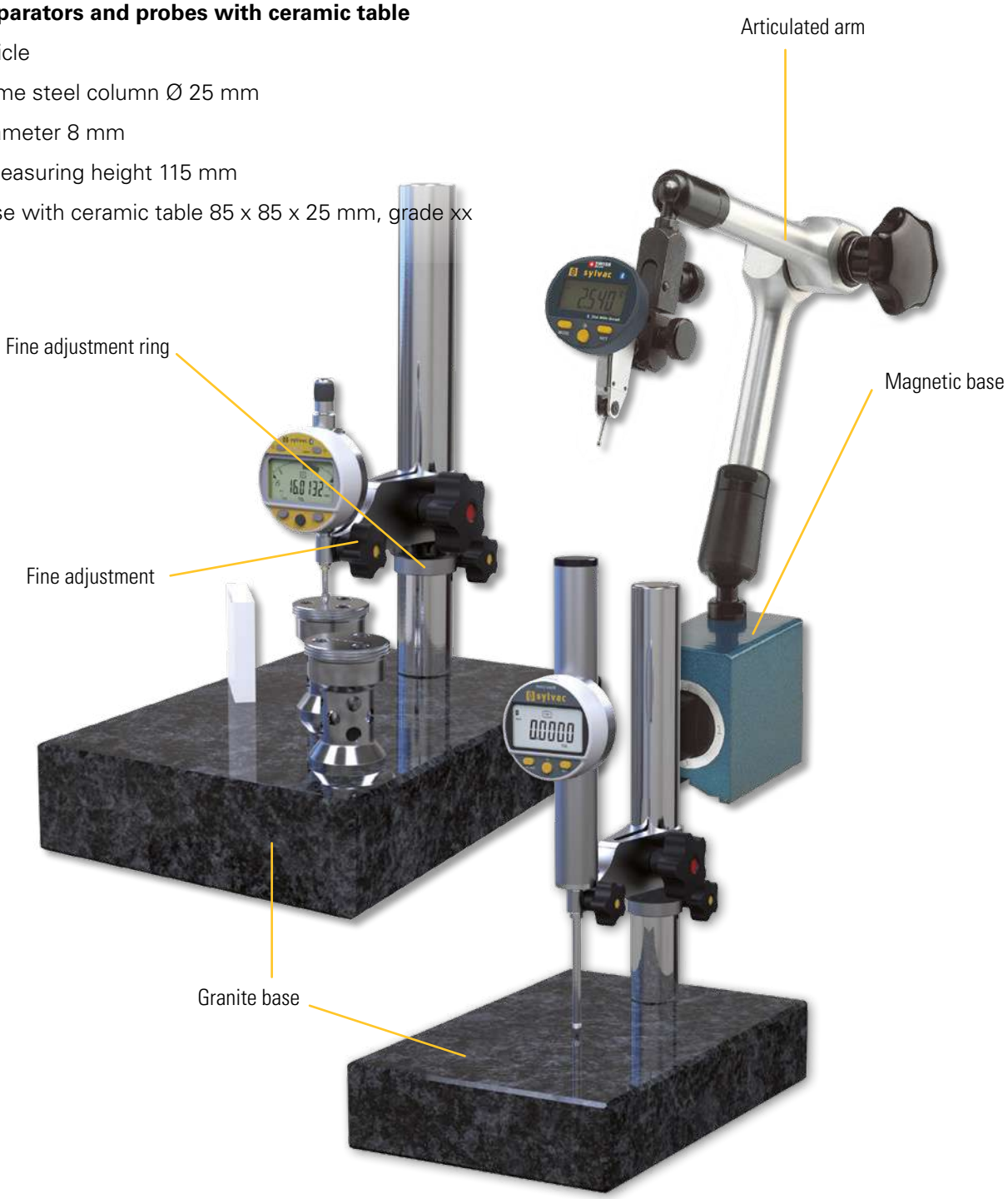
DESCRIPTION

Stands with magnetic base for lever indicators

- Imported article
- Vertical rod Ø 16 mm and hinged horizontal rod Ø 12 mm
- Maximum measuring height 350 mm
- Magnetic base with attraction force 80 kg
- Clamping diameter 8 mm

Stands for comparators and probes with ceramic table

- Imported article
- Vertical chrome steel column Ø 25 mm
- Clamping diameter 8 mm
- Maximum measuring height 115 mm
- Cast iron base with ceramic table 85 x 85 x 25 mm, grade xx

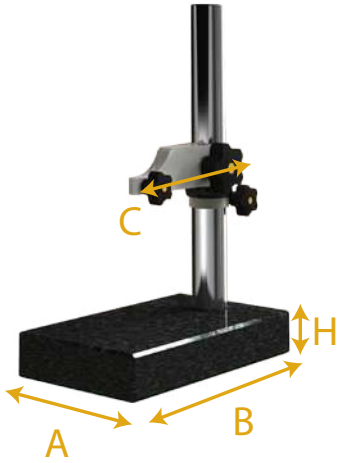


Measuring stands

TECHNICAL SPECIFICATIONS

908-1201

808-1204



		908-1201	808-1204	808-1205
Base		magnetic [1]	granit grade 00	granit grade 00
Base dimensions AxBxH	mm	60x50x55	300x210x60	300x210x60
Central locking		●	---	---
Column	mm	---	Steel Ø 35	Steel Ø 35
Clamping dimension	mm	Ø 8	Ø 8	Ø 25
Dist. Column.-meas. point. C	mm	---	115	115
Measuring range	mm	0 - 267	0 - 260	0 - 260
Total height	mm	430	360	360
Weight	kg	2.2	13.4	13.5
Fine adjustment		●	●	●

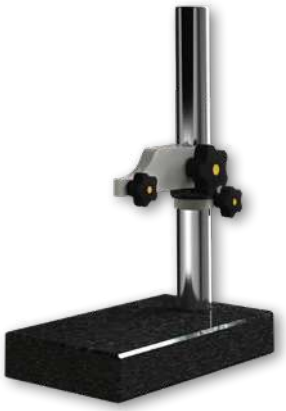
[1] Gripping coefficient : 800N

Measuring stands

TECHNICAL SPECIFICATIONS

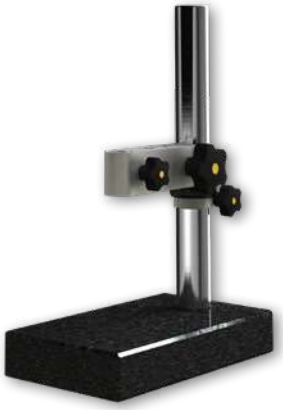
Series 808 stands for digital indicators and probes

- Made at Sylvac in Switzerland
- Superior quality compared to the Asian tables generally found on the market
- Reinforced column Ø 25 or 35 mm with precision measuring arm for excellent parallelism and high rigidity reducing the measuring error generated by the support.
- Clamping diameter 8 mm and 25 mm (for fixing S_Dial PRO dial gauges)
- Ring for fine adjustment of the vertical position
- Grade 00 granite base

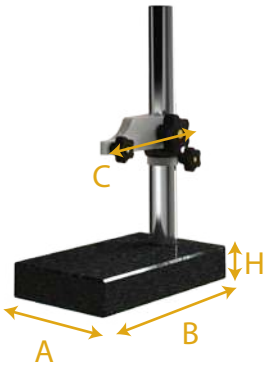


808-1206

808-1203



808-1202



		808-1206	808-1207	808-1202	808-1203	808-1201
Base		granit grade 00	granit grade 00	granit grade 00	granit grade 00	granit grade 00
Base dimensions AxBxH	mm	100X150X40	100X150X40	240x140x50	240x140x50	240x140x50
Central locking		---	---	---	---	---
Column	mm	Steel Ø 25	Steel Ø 35	Steel Ø 35	Steel Ø 35	Steel Ø 35
Clamping dimension	mm	Ø 8	Ø 8	Ø 25	Ø 8	Ø 8
Dist. Column.-meas. point. C	mm	70	70	115	70	115
Measuring range	mm	0 - 190	0 - 260	0 - 260	0 - 260	0 - 260
Total height	mm	270	340	340	340	340
Weight	kg	2.9	4.3	6.6	6.5	6.6
Fine adjustment		●	●	●	●	●

CALIPERS

The 80s, another era, another way of living, thinking and, above all, working. It was then that the first Sylvac digital calipers were born, which revolutionised measurement, until then carried out exclusively with the help of mechanical verniers. The digital calipers brought more precision and greater ease of use. Over the years, our range has been enriched by the numerous models presented in this chapter.

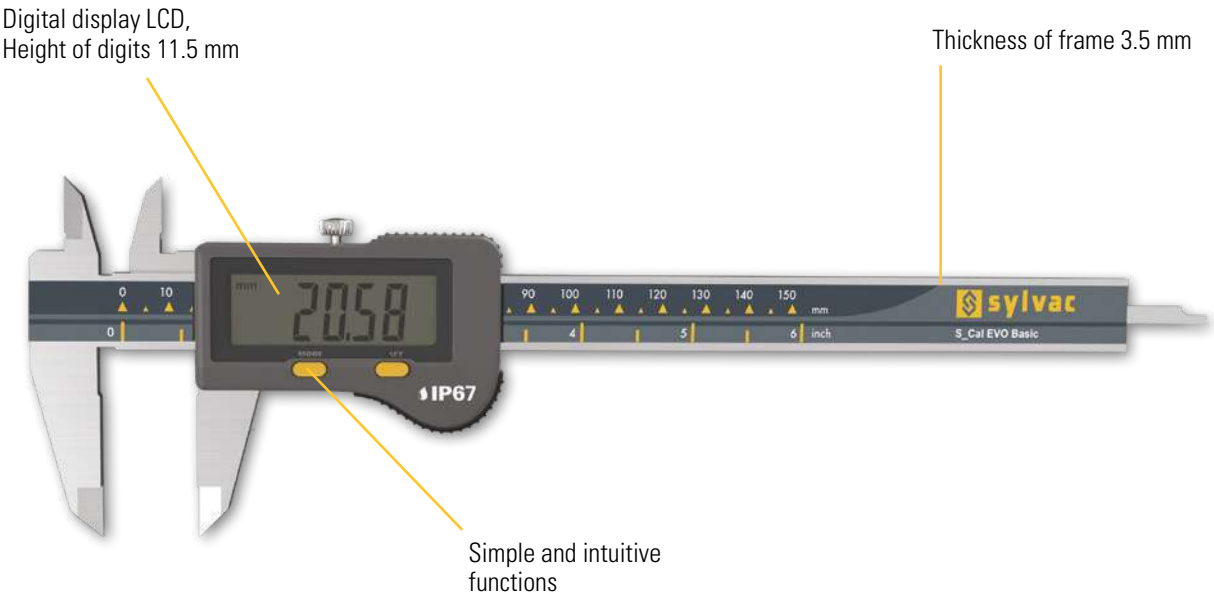
GENERAL CHARACTERISTICS :

- **Accuracy according to ISO13385-1**
- **Powered by lithium battery type CR2032**
- **Absolute measuring system S.I.S**
- **Automatic sleep and wake-up**
- **mm/inch conversion on all models**
- **Working temperature +5° to +40°C**

Caliper S_Cal EVO

DESCRIPTION BASIC

- High-quality, ergonomic calliper without data output
- 3.5 mm thick hardened and ground stainless steel frame
- New extra-large display unit with 11.5 mm high digits
- Memorising the home position even when the instrument is switched off
- Available in the following executions :
  - Measuring range 150 mm with rectangular depth rod
  - Measuring range 150 mm with cylindrical depth rod
  - Measuring range 200 mm with rectangular depth rod
  - Measuring range 300 mm without depth rod
- Protection class IP67
- Wheel available as an option



ISO 13385-1

NO OUTPUT

SIS Smart Inductive System

WATER RESISTANT

IP67

Protection rating IP67 !

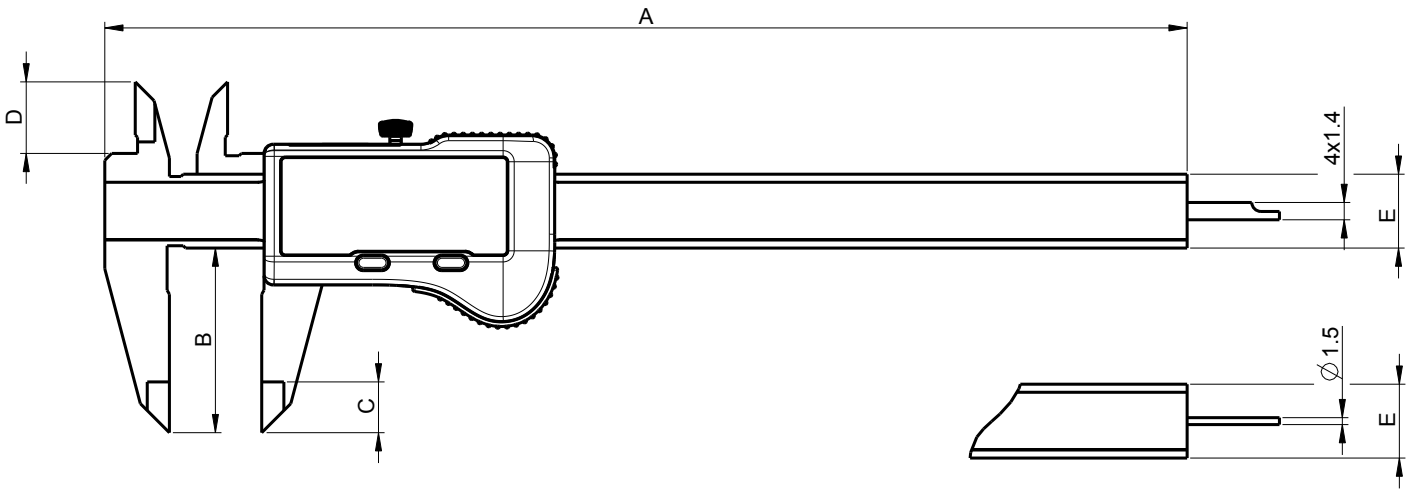
* SIS description on page 5

Caliper

S_Cal EVO

DIMENSIONAL DRAWING

BASIC



TECHNICAL SPECIFICATIONS

		810-1502	810-1507	810-1522	810-1532
Measuring range	mm	150	150	200	300
Max. Error - external measurements E_{MPE}	µm	20 [1]	20 [1]	20 [1]	30 [1]
Max. Error - internal measurements S_{MPE}	µm	30 [2]	30 [2]	30 [2]	40 [2]
A	mm	234.5	234.5	290.5	388
B	mm	40	40	50	64
C	mm	11	11	14	14
D	mm	16	16	19	19
E	mm	16 x 3.5	16 x 3.5	16 x 3.5	16 x 4
Depth rod	mm	▬ 4 x 1.4	Ø 1.5	▬ 4 x 1.4	---
Protection rating according to IEC 60529		IP67			
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold			
Smart Inductive Sensor		●			

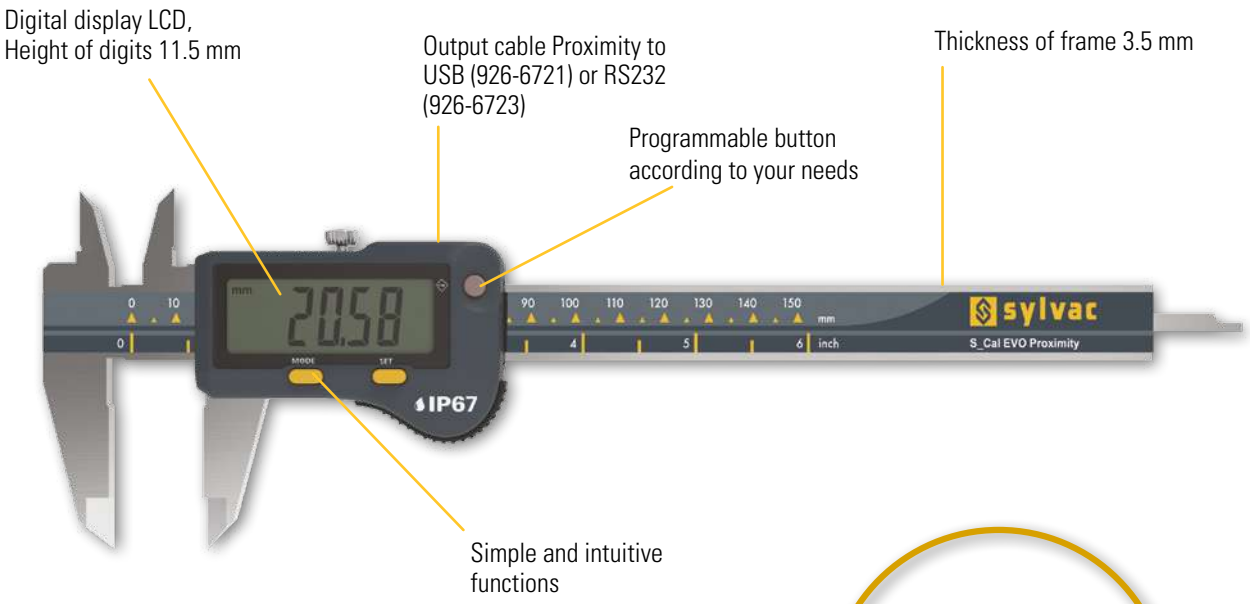
[1] 0-200 mm : 20 µm / ISO13385-1
>200-300 mm : 30 µm / ISO13385-1

[2] Ø4-25 : 20 µm / ISO13385-1
>25-200 : 30 µm / ISO13385-1
>200-300 : 40 µm / ISO13385-1

Caliper S_Cal EVO

DESCRIPTION PROXIMITY

- High-quality ergonomic caliper with Proximity data output
- 3.5 mm thick hardened and ground stainless steel pole
- New extra-large display unit with 11.5 mm high digits
- Additional button with selectable favourite function
- Memorising the home position even when the instrument is switched off
- Available in the following executions :
  - Measuring range 150 mm with rectangular depth rod
  - Measuring range 150 mm with cylindrical depth rod
  - Measuring range 200 mm with rectangular depth rod
  - Measuring range 300 mm without depth rod
- Protection class IP67
- Wheel available as an option



ISO 13385-1

PROXIMITY

SIS Smart Inductive System

WATER RESISTANT

IP67

Proximity cable

Proximity version

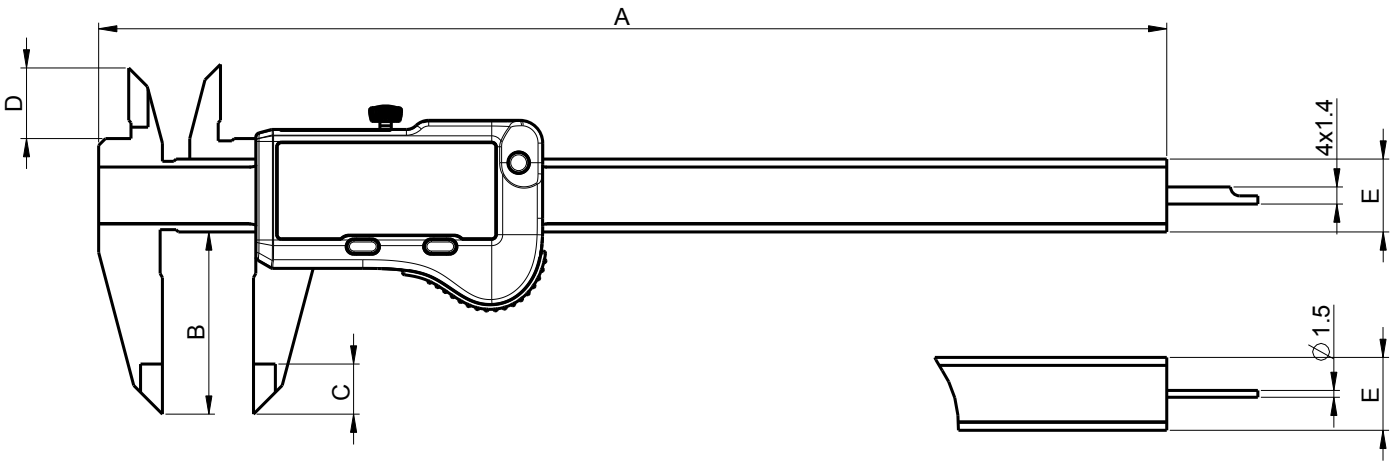
* SIS description on page 5

Caliper

S_Cal EVO

DIMENSIONAL DRAWING

PROXIMITY



TECHNICAL SPECIFICATIONS

		810-1702	810-1707	810-1722	810-1732
Measuring range	mm	150	150	200	300
Max. Error - external measurements E_{MPE}	µm	20 [1]	20 [1]	20 [1]	30 [1]
Max. Error - internal measurements S_{MPE}	µm	30 [2]	30 [2]	30 [2]	40 [2]
A	mm	234.5	234.5	290.5	388
B	mm	40	40	50	64
C	mm	11	11	14	14
D	mm	16	16	19	19
E	mm	16 x 3.5	16 x 3.5	16 x 3.5	16 x 4
Depth rod	mm	▬ 4 x 1.4	Ø 1.5	▬ 4 x 1.4	---
Protection rating according to IEC 60529		IP67			
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold			
Output data		USB / RS232 [3]			
Smart Inductive Sensor		●			

[1] 0-200 mm : 20 µm / ISO13385-1
>200-300 mm : 30 µm / ISO13385-1

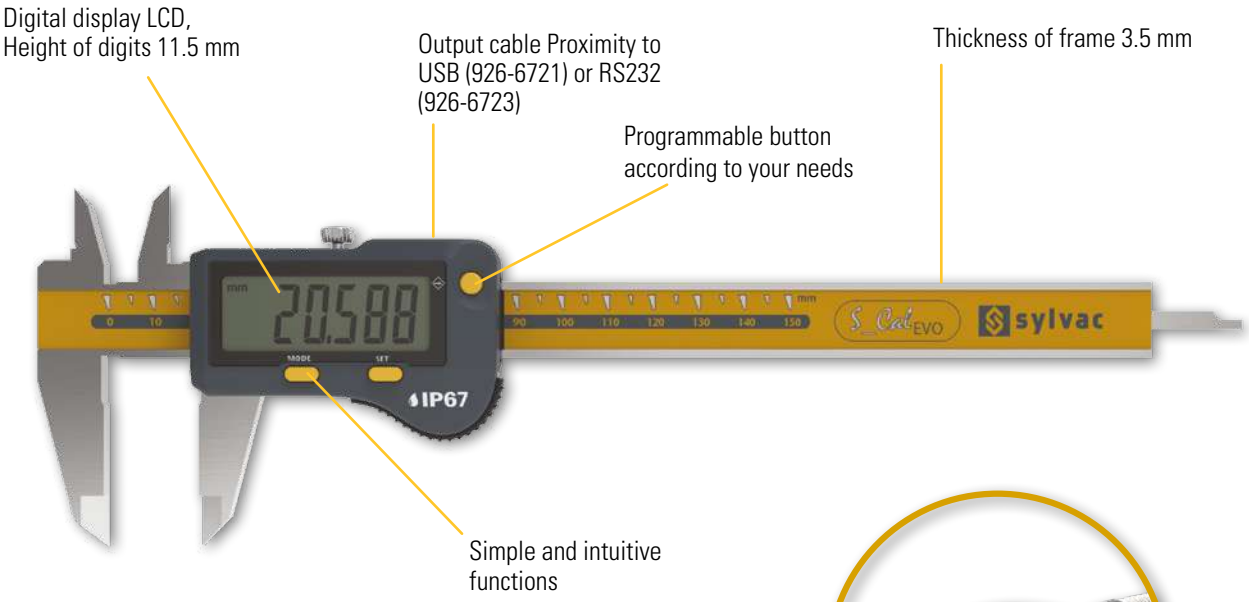
[2] Ø4-25 : 20 µm / ISO13385-1
>25-200 : 30 µm / ISO13385-1
>200-300 : 40 µm / ISO13385-1

[3] see cables chapter

Micron Caliper S_Cal EVO

DESCRIPTION PROXIMITY MICRON

- High quality ergonomic caliper with micron display and Proximity data output
- Hardened, finely ground stainless steel frame, thickness 3.5 mm
- New extra-large display unit, resolution 0.001 mm, digits height 11.5 mm
- Preset function to measure by comparison
- Additional button with selectable favourite function
- Memorising the home position even when the instrument is switched off
- Available in the following executions :
  - Measuring range 150 mm with rectangular depth rod
  - Measuring range 150 mm with cylindrical depth rod
- Protection class IP67
- Delivered with calibration certificate
- Wheel available as an option



ISO 13385-1

PROXIMITY

SIS Smart Inductive System

WATER RESISTANT

IP67

Proximity cable

Version Proximity micron

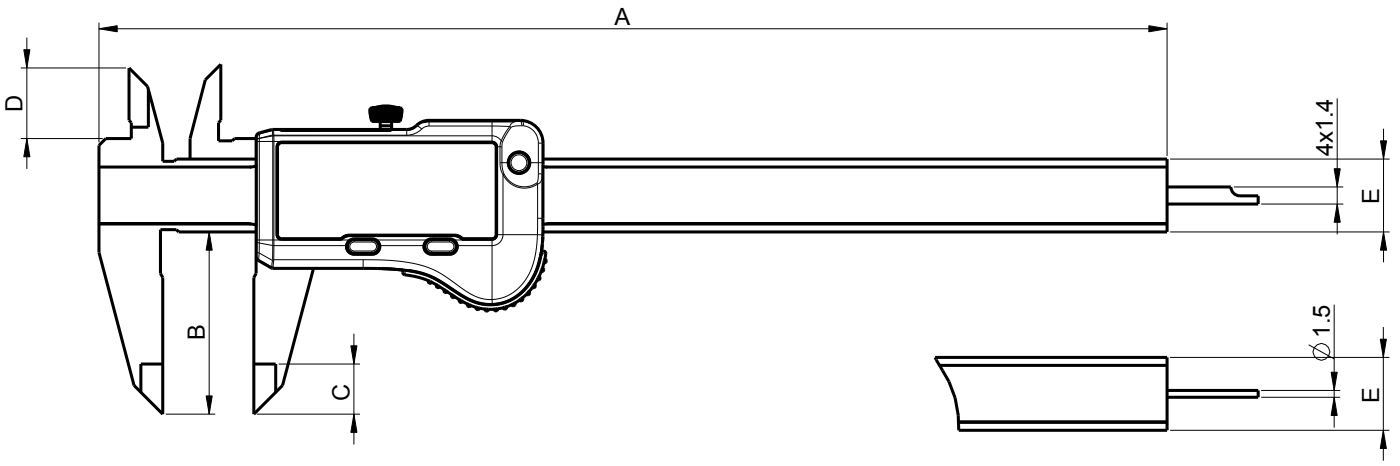
* SIS description on page 5

Micron Caliper

S_Cal EVO

DIMENSIONAL DRAWING

PROXIMITY MICRON



TECHNICAL SPECIFICATIONS

		810-9702	810-9707
Measuring range	mm	150	150
Max. Error - external measurements E_{MPE}	µm	15 [1]	15 [1]
Max. Error - internal measurements S_{MPE}	µm	25 [2]	25 [2]
Resolution	mm	0.001	
A	mm	234.5	234.5
B	mm	40	40
C	mm	11	11
D	mm	16	16
E	mm	16 x 3.5	16 x 3.5
Depth rod	mm	▬ 4 x 1.4	Ø1.5
Functions		Zero setting, Preset (max 99.999), mm/inch, Hold	
Protection rating according to IEC 60529		IP67	
Output data		USB / RS232 [3]	
Smart Inductive Sensor		●	

[1] 0-150 mm : 15 µm / ISO13385-1

[2] Ø4-25 : 20 µm / ISO13385-1
>25-150 : 25 µm / ISO13385-1

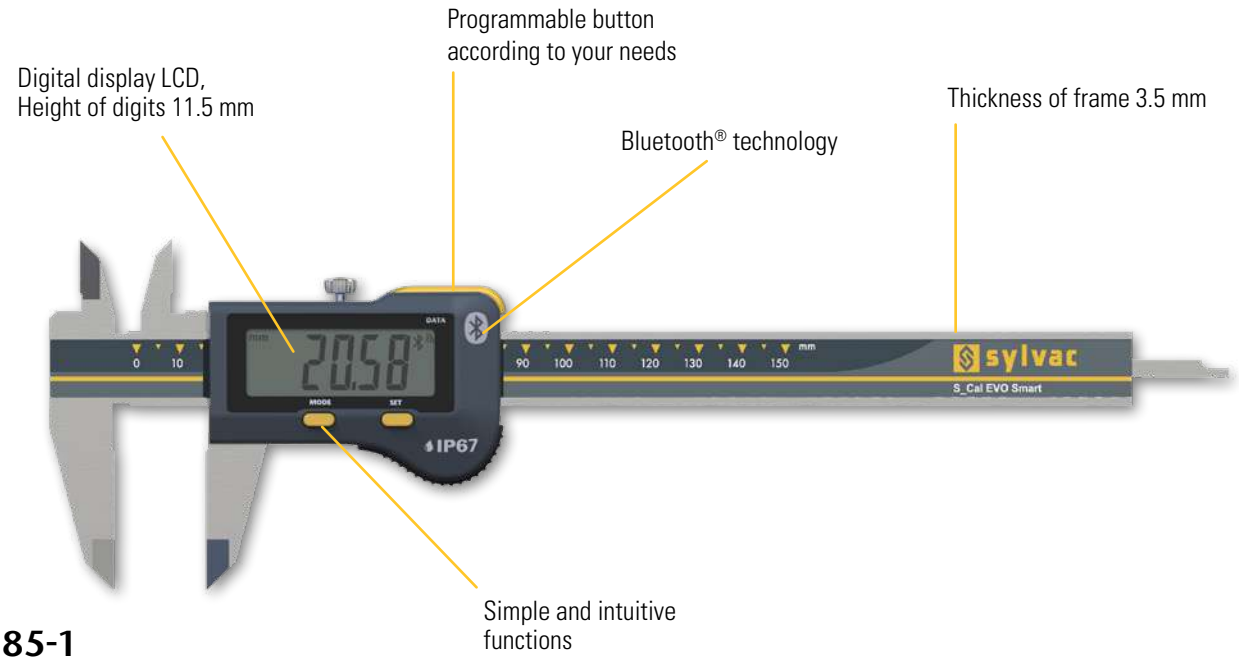
[3] see cables chapter

Caliper S_Cal EVO

DESCRIPTION SMART

- High-quality ergonomic caliper with integrated Bluetooth® system
- 3.5 mm thick hardened and ground stainless steel frame
- New extra-large display unit with 11.5 mm high digits
- Convenient push button for sending data that can also be programmed with another function
- Memorising the home position even when the instrument is switched off
- Available in the following executions :
  - Measuring range 150 mm with rectangular depth rod
  - Measuring range 150 mm with cylindrical depth rod
  - Measuring range 200 mm with rectangular depth rod
  - Measuring range 300 mm without depth rod
- Protection class IP67
- Wheel available as an option

Built-in Bluetooth®



ISO 13385-1

Built-in Bluetooth®

Bluetooth® wireless technology and IP67 protection rating!

SIS Smart Inductive System

WATER RESISTANT

IP67

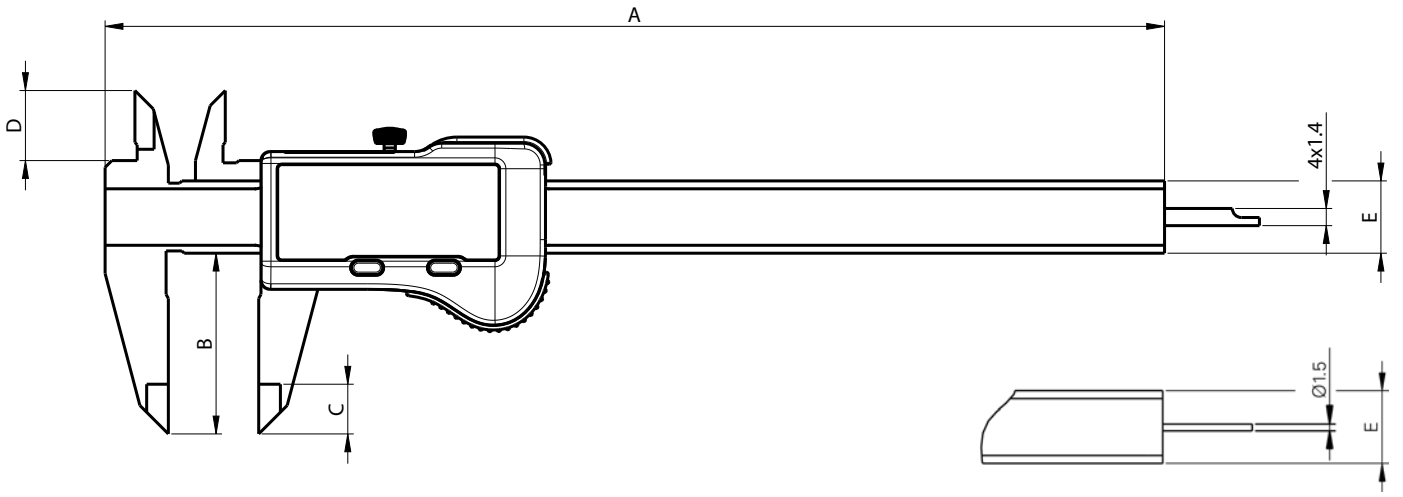
* SIS description on page 5

Caliper

S_Cal EVO

DIMENSIONAL DRAWING

SMART



TECHNICAL SPECIFICATIONS

		810-1506	810-1516	810-1526	810-1536
Measuring range	mm	150	150	200	300
Max. Error - external measurements E_{MPE}	µm	20 [1]	20 [1]	20 [1]	30 [1]
Max. Error - internal measurements S_{MPE}	µm	30 [2]	30 [2]	30 [2]	40 [2]
A	mm	234.5	234.5	290.5	388
B	mm	40	40	50	64
C	mm	11	11	14	14
D	mm	16	16	19	19
E	mm	16 x 3.5	16 x 3.5	16 x 3.5	16 x 4
Depth rod	mm	▬ 4 x 1.4	Ø 1.5	▬ 4 x 1.4	---
Protection rating according to IEC 60529		IP67			
Output data		Bluetooth® wireless technology			
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data			
Smart Inductive Sensor		●			

[1] 0-200 mm : 20 µm / ISO13385-1
>200-300 mm : 30 µm / ISO13385-1

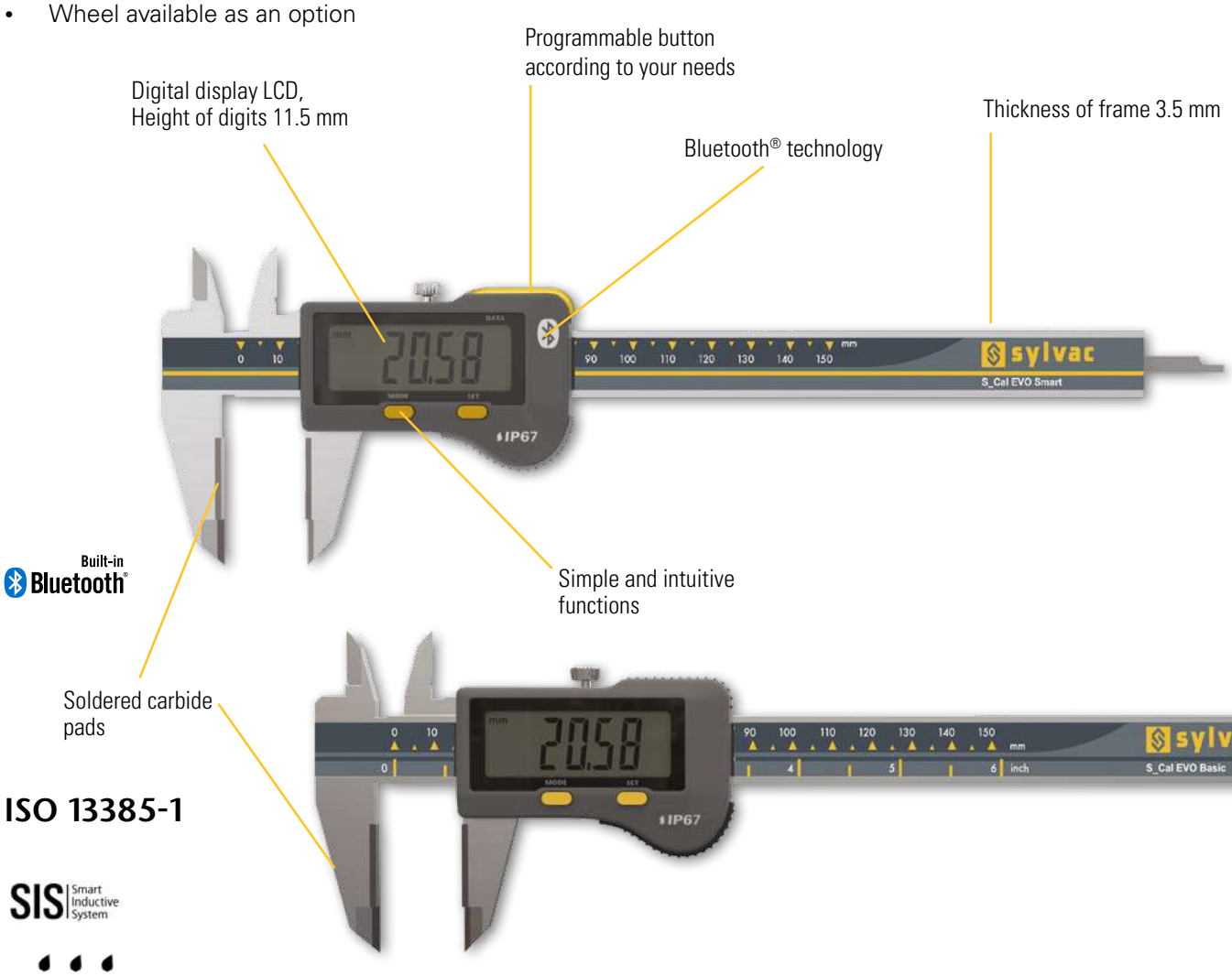
[2] Ø4-25 : 20 µm / ISO13385-1
>25-200 : 30 µm / ISO13385-1
>200-300 : 40 µm / ISO13385-1

Caliper S_Cal EVO

DESCRIPTION CARBIDE

- High-quality ergonomic caliper with integrated Bluetooth® system
- Outer jaws featuring soldered carbide pads
- 3.5 mm thick hardened and ground stainless steel frame
- New extra-large display unit with 11.5 mm high digits
- Convenient push button for sending data that can also be programmed with another function
- Memorising the home position even when the instrument is switched off
- Available in the following executions :
  - Measuring range 150 mm with rectangular depth rod
  - Measuring range 150 mm with cylindrical depth rod
- - Measuring range 200 mm with rectangular depth rod
- Protection class IP67
- Wheel available as an option

Built-in Bluetooth®



Built-in Bluetooth®

ISO 13385-1

SIS Smart Inductive System

WATER RESISTANT

IP67

Outer jaws featuring soldered carbide pads

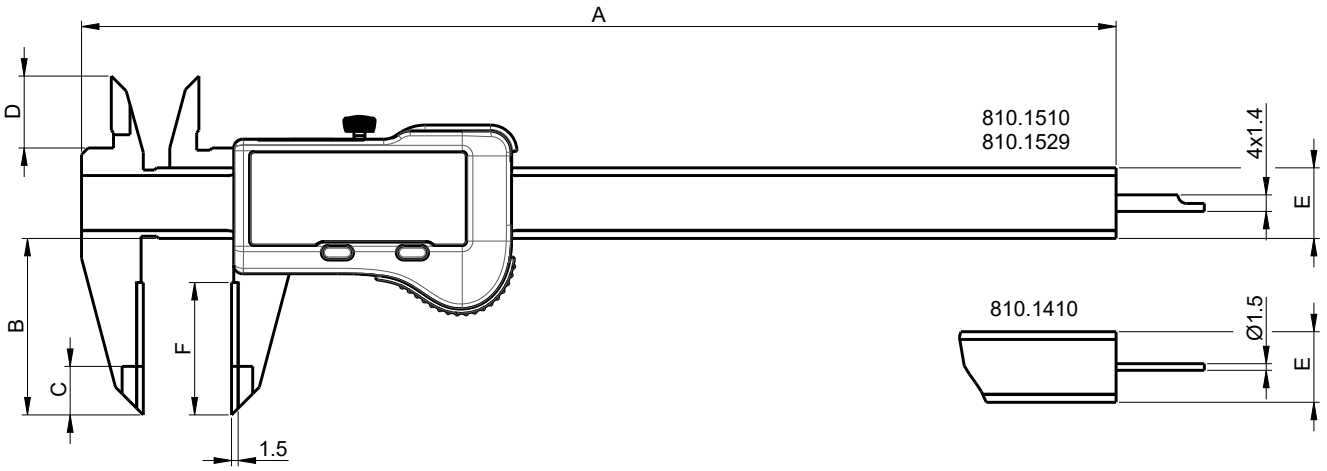
* SIS description on page 5

Caliper

S_Cal EVO

DIMENSIONAL DRAWING

CARBIDE



TECHNICAL SPECIFICATIONS

		810-1410	810-1510	810-1529
Measuring range	mm	150	150	200
Max. Error - external measurements E_{MPE}	µm	20 [1]	20 [1]	20 [1]
Max. Error - internal measurements S_{MPE}	µm	30 [2]	30 [2]	30 [2]
A	mm	234.5	234.5	290
B	mm	40	40	50
C	mm	11	11	14
D	mm	16	16	19
E	mm	16 x 3.5	16 x 3.5	16 x 3.5
F	mm	30	30	36
Depth rod	mm	Ø 1.5	▬ 4 x 1.4	▬ 4 x 1.4
Protection rating according to IEC 60529		IP67	IP67	IP67
Output data		-	Bluetooth® wireless technology	
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data		
Smart Inductive Sensor		●		

[1] 0-200 mm : 20 µm / ISO13385-1
>200-300 mm : 30 µm / ISO13385-1

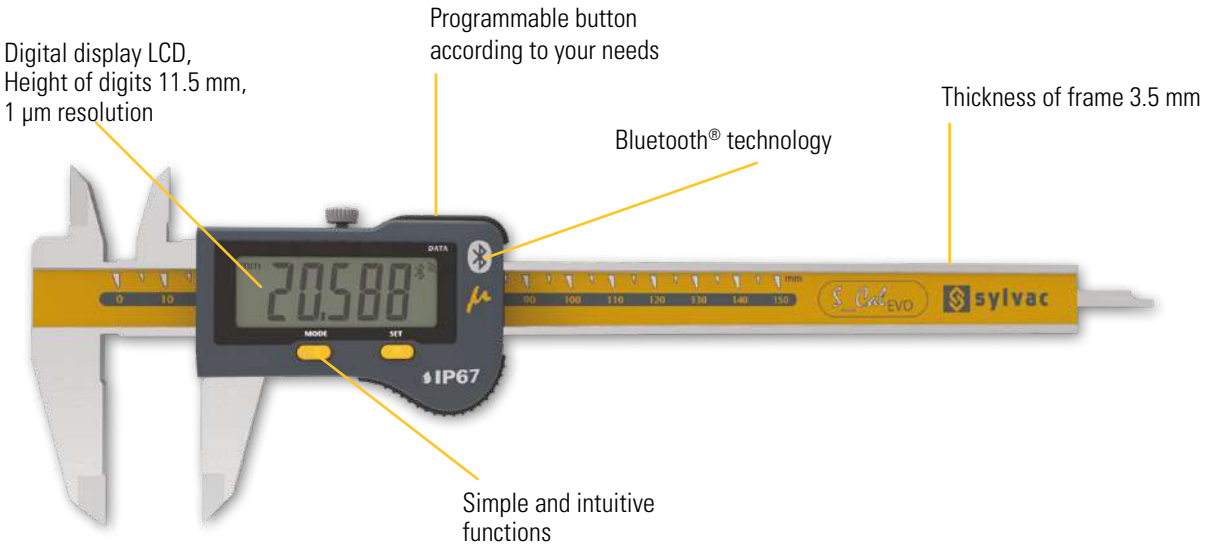
[2] Ø4-25 : 20 µm / ISO13385-1
>25-200 : 30 µm / ISO13385-1

Micron Caliper S_Cal EVO

DESCRIPTION SMART MICRON

- High-quality ergonomic caliper with micron display and integrated Bluetooth® system
- Hardened and finely ground stainless steel frame, thickness 3.5 mm
- New extra-large display unit, resolution 0.001 mm, digits height 11.5 mm
- Preset function to measure by comparison
- Convenient push button for sending data that can also be programmed with another function
- Memorising the home position even when the instrument is switched off
- Available in the following executions :
  - Measuring range 150 mm with rectangular depth rod
  - Measuring range 150 mm with cylindrical depth rod
- Protection class IP67
- Delivered with calibration certificate
- Wheel available as an option

Built-in Bluetooth®



ISO 13385-1

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

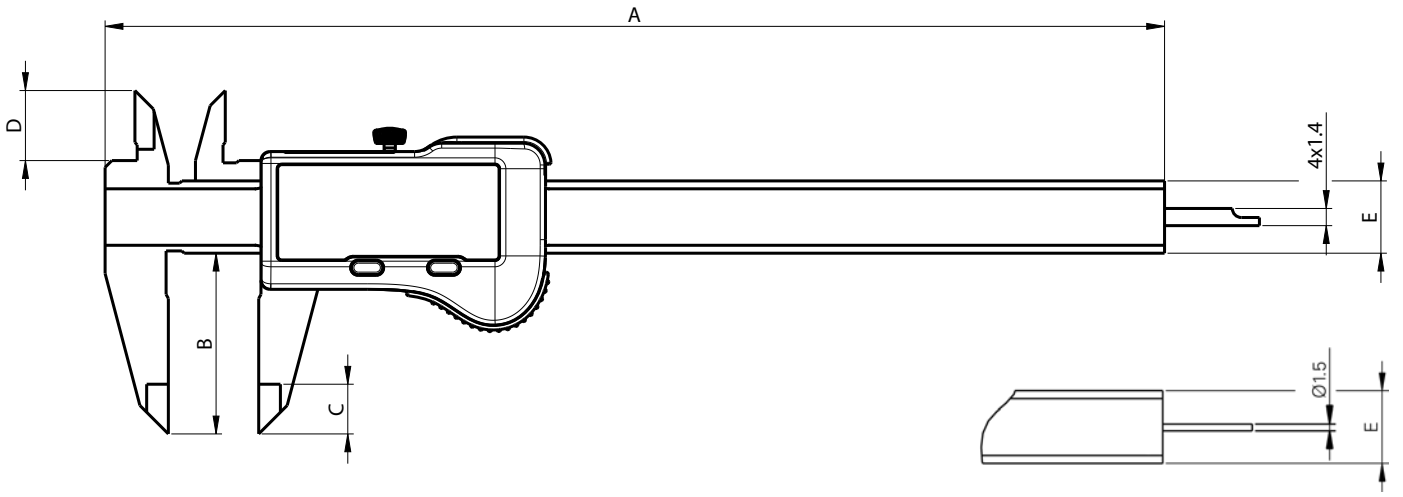
* SIS description on page 5

Micron Caliper

S_Cal EVO

DIMENSIONAL DRAWING

SMART MICRON



C

TECHNICAL SPECIFICATIONS

		810-9506	810-9516	810-9526
Measuring range	mm	150	150	200
Max. Error - external measurements E_{MPE}	µm	15 [1]	15 [1]	20 [1]
Max. Error - internal measurements S_{MPE}	µm	25 [2]	25 [2]	30 [2]
Resolution	mm	0.001		
A	mm	234.5	234.5	290.5
B	mm	40	40	50
C	mm	11	11	14
D	mm	16	16	19
E	mm	16 x 3.5	16 x 3.5	16 x 3.5
Depth rod	mm	▬ 4 x 1.4	Ø 1.5	▬ 4 x 1.4
Protection rating according to IEC 60529		IP67		
Output data		Bluetooth® wireless technology		
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data		
Smart Inductive Sensor		●		

[1] 0-150 mm : 15 µm / ISO13385-1
>150-200 mm : 20 µm / ISO13385-1

[2] Ø4-25 : 20 µm / ISO13385-1
>25-150 : 25 µm / ISO13385-1
>150-200 : 30 µm / ISO13385-1

Special caliper

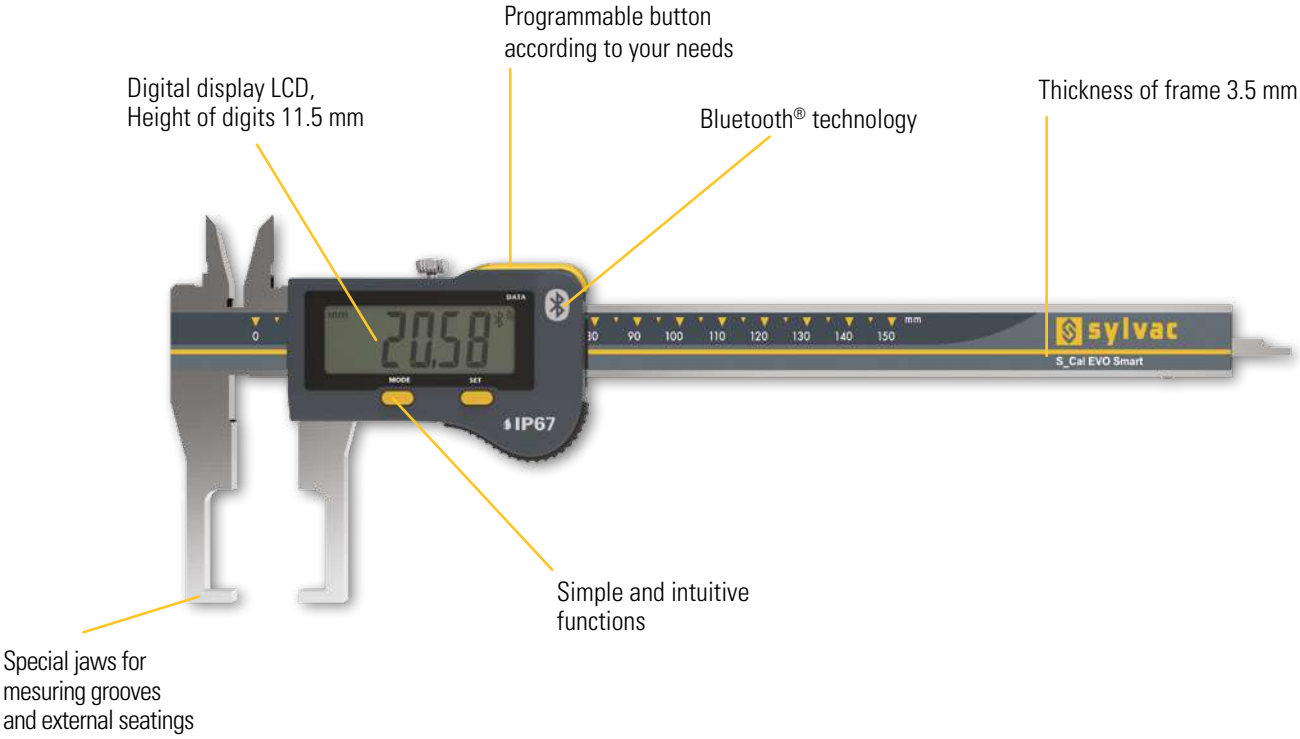
S_Cal EVO

DESCRIPTION

SMART EXTERNAL GROOVE

- High-quality, ergonomic caliper with integrated Bluetooth® system
- Model for the measurement of external grooves from 2.6 mm wide
- 3.5 mm thick hardened and ground stainless steel frame
- New extra-large display unit with 11.5 mm high digits
- Convenient push button for sending data that can also be programmed with another function
- Memorising the home position even when the instrument is switched off
- Measuring range 150 mm with rectangular depth rod
- Protection class IP67
- Wheel available as an option

Built-in Bluetooth®



ISO 13385-1

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

For measuring grooves and external seatings

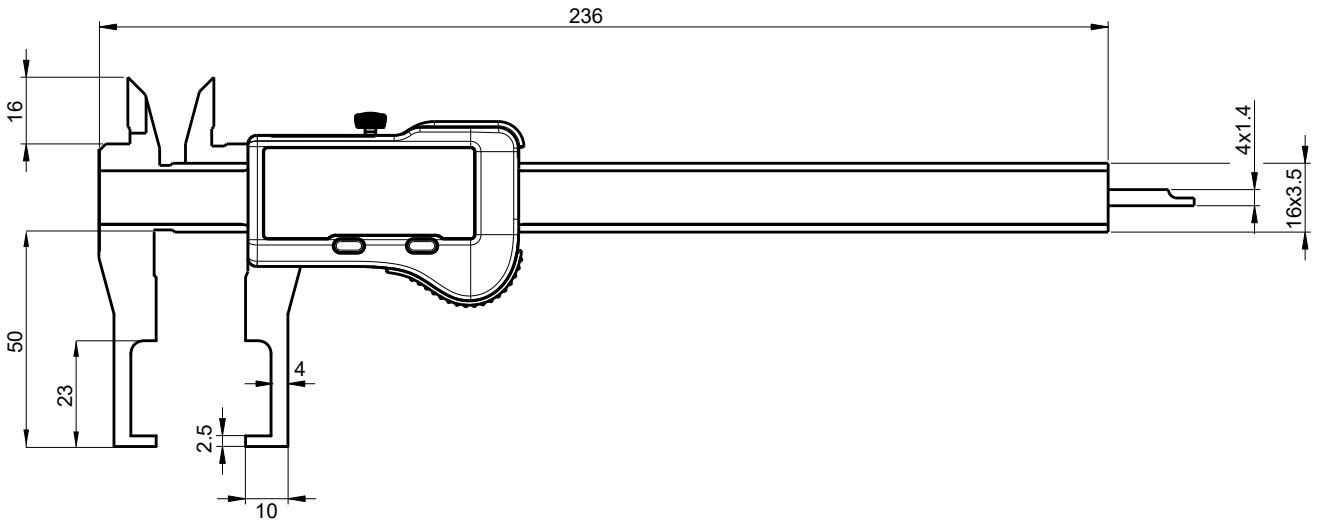
* SIS description on page 5

Special caliper

S_Cal EVO

DIMENSIONAL DRAWING

SMART EXTERNAL GROOVE



C

TECHNICAL SPECIFICATIONS

		810-1602
Measuring range	mm	150
Max. Error - external measurements E_{MPE}	µm	± 30 [1]
Max. Error - internal measurements S_{MPE}	µm	± 50 [2]
Depth rod	mm	▬ 4 x 1.4
Protection rating according to IEC 60529		IP67
Output data		Bluetooth® wireless technology
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data
Smart Inductive Sensor		●

[1] 0-50 mm : ±20 µm / ISO13385-1, >50-150 mm : ±30 µm / ISO13385-1
[2] Ø4-50 : ±30 µm / ISO13385-1, >50-150 mm : ±50 µm / ISO13385-1

Special caliper

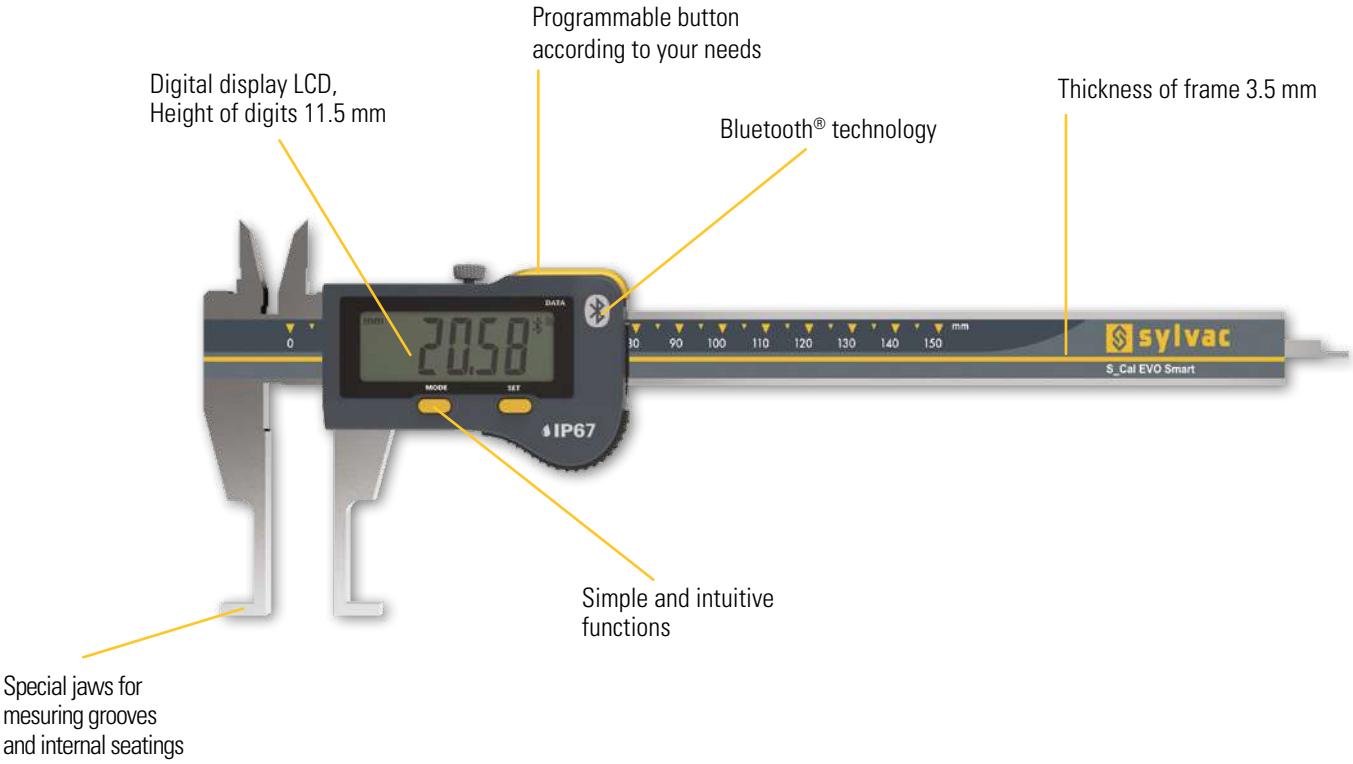
S_Cal EVO

DESCRIPTION

SMART INTERNAL GROOVE

- High-quality, ergonomic caliper with integrated Bluetooth® system
- Model for the measurement of internal grooves from 2.6mm width
- 3.5 mm thick hardened and ground stainless steel frame
- New extra-large display unit with 11.5 mm high digits
- Convenient push button for sending data that can also be programmed with another function
- Memorising the home position even when the instrument is switched off
- Measuring range 150 mm with rectangular depth rod
- Protection class IP67
- Wheel available as an option

Built-in Bluetooth®



ISO 13385-1

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

For measuring grooves and internal seatings

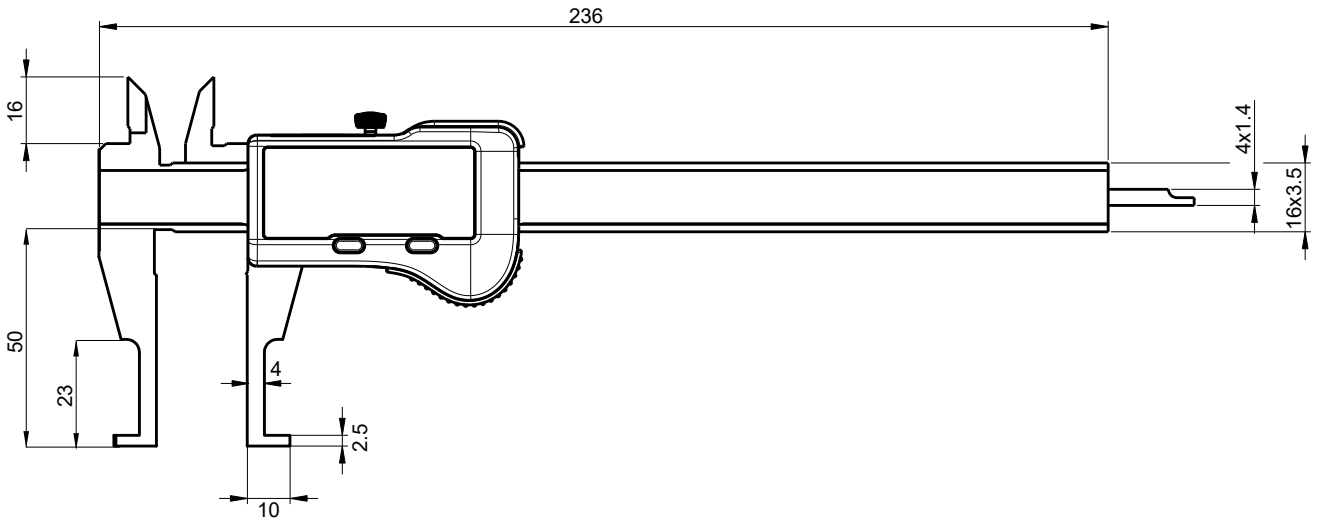
* SIS description on page 5

Special caliper

S_Cal EVO

DIMENSIONAL DRAWING

SMART INTERNAL GROOVE



C

TECHNICAL SPECIFICATIONS

		810-1600
Measuring range	mm	150
Max. Error - external measurements E_{MPE}	µm	± 30 [1]
Max. Error - internal measurements S_{MPE}	µm	± 50 [2]
Depth rod	mm	▬ 4 x 1.4
Protection rating according to IEC 60529		IP67
Output data		Bluetooth® wireless technology
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data
Smart Inductive Sensor		●

[1] 0-50 mm : ±20 µm / ISO13385-1, >50-150 mm : ±30 µm / ISO13385-1
[2] Ø4-50 : ±30 µm / ISO13385-1, >50-150 mm : ±50 µm / ISO13385-1

Special caliper

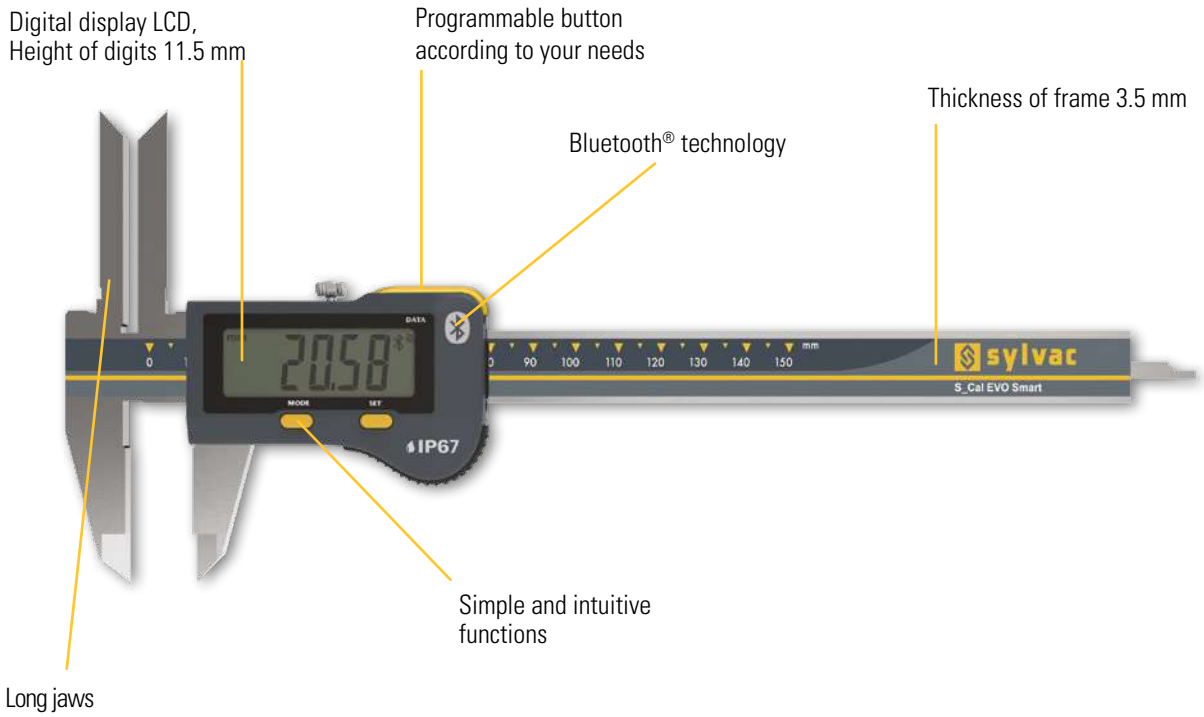
S_Cal EVO

DESCRIPTION

SMART DEEP MEASUREMENT

- High-quality, ergonomic caliper with integrated Bluetooth® system
- Model with long 40 mm jaws for deep internal measurements
- 3.5 mm thick hardened and ground stainless steel frame
- New extra-large display unit with 11.5 mm high digits
- Convenient push button for sending data that can also be programmed with another function
- Memorising the home position even when the instrument is switched off
- Measuring range 150 mm with rectangular depth rod
- Protection class IP67
- Wheel available as an option

Built-in Bluetooth®



ISO 13385-1

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

* SIS description on page 5

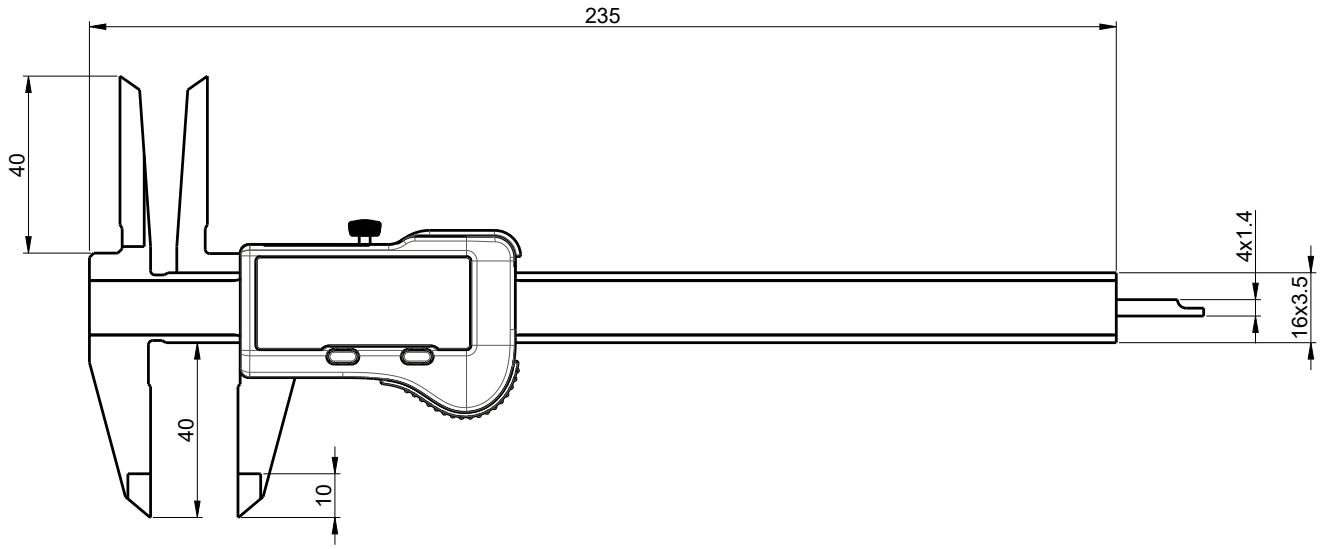
Long internal jaws for deep measurements

Special caliper

S_Cal EVO

DIMENSIONAL DRAWING

SMART DEEP MEASUREMENT



TECHNICAL SPECIFICATIONS

		810-1603
Measuring range	mm	150
Max. Error - external measurements E_{MPE}	µm	± 30 [1]
Max. Error - internal measurements S_{MPE}	µm	± 50 [2]
Depth rod	mm	▬ 4 x 1.4
Protection rating according to IEC 60529		IP67
Output data		Bluetooth® wireless technology
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data
Smart Inductive Sensor		●

[1] 0-50 mm : ±20 µm / ISO13385-1, >50-150 mm : ±30 µm / ISO13385-1
[2] Ø4-50 : ±30 µm / ISO13385-1, >50-150 mm : ±50 µm / ISO13385-1

Special caliper

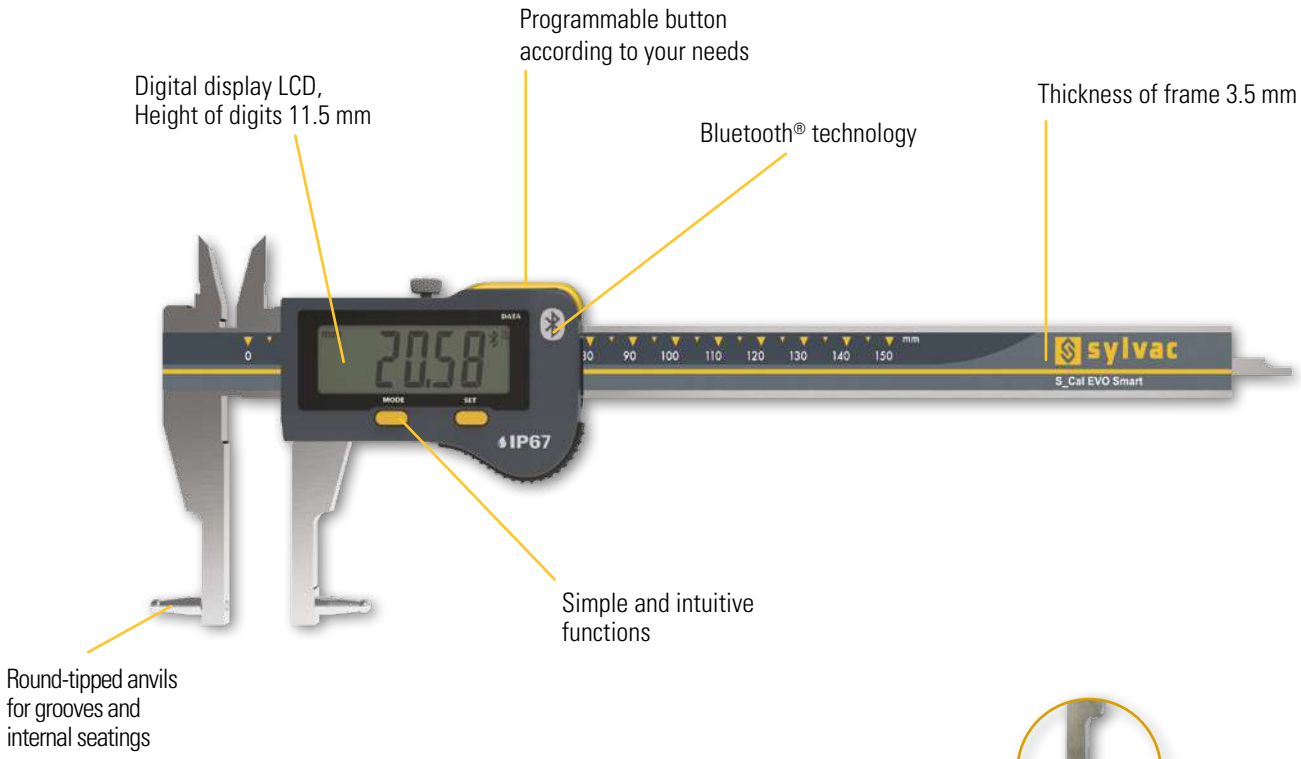
S_Cal EVO

DESCRIPTION

SMART POINTS JAWS

- High-quality, ergonomic caliper with integrated Bluetooth® system
- Equipped with interchangeable M2.5 keys with hard metal ball Ø2.5 mm, for all kinds of internal measurements from 34 mm with these keys.
- 3.5 mm thick hardened and ground stainless steel frame
- New extra-large display unit with 11.5 mm high digits
- Convenient push button for sending data that can also be programmed with another function
- Memorising the original position even when the instrument is switched off
- Measuring range 150 mm with rectangular depth rod
- Protection class IP67
- Wheel available as an option

Built-in Bluetooth®



ISO 13385-1

M2.5

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

Interchangeable anvils

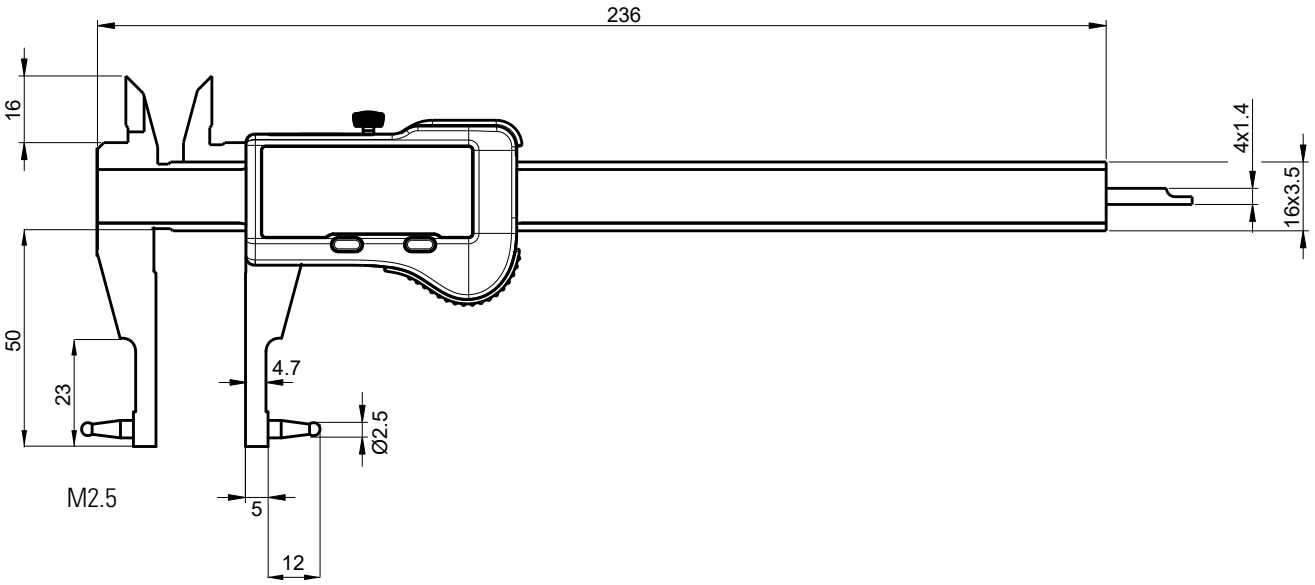
* SIS description on page 5

Special caliper

S_Cal EVO

DIMENSIONAL DRAWING

SMART POINTS JAWS



C

TECHNICAL SPECIFICATIONS

		810-1601
Measuring range	mm	150
Max. Error - external measurements E_{MPE}	µm	± 30 [1]
Max. Error - internal measurements S_{MPE}	µm	± 50 [2]
Depth rod	mm	▬ 4 x 1.4
Protection rating according to IEC 60529		IP67
Output data		Bluetooth® wireless technology
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data
Smart Inductive Sensor		●

[1] 0-50 mm : ±20 µm / ISO13385-1, >50-150 mm : ±30 µm / ISO13385-1
[2] Ø4-50 : ±30 µm / ISO13385-1, >50-150 mm : ±50 µm / ISO13385-1

Partkey to screw/unscrew
the anvils

Caliper mid size

S_Cal EVO Form E

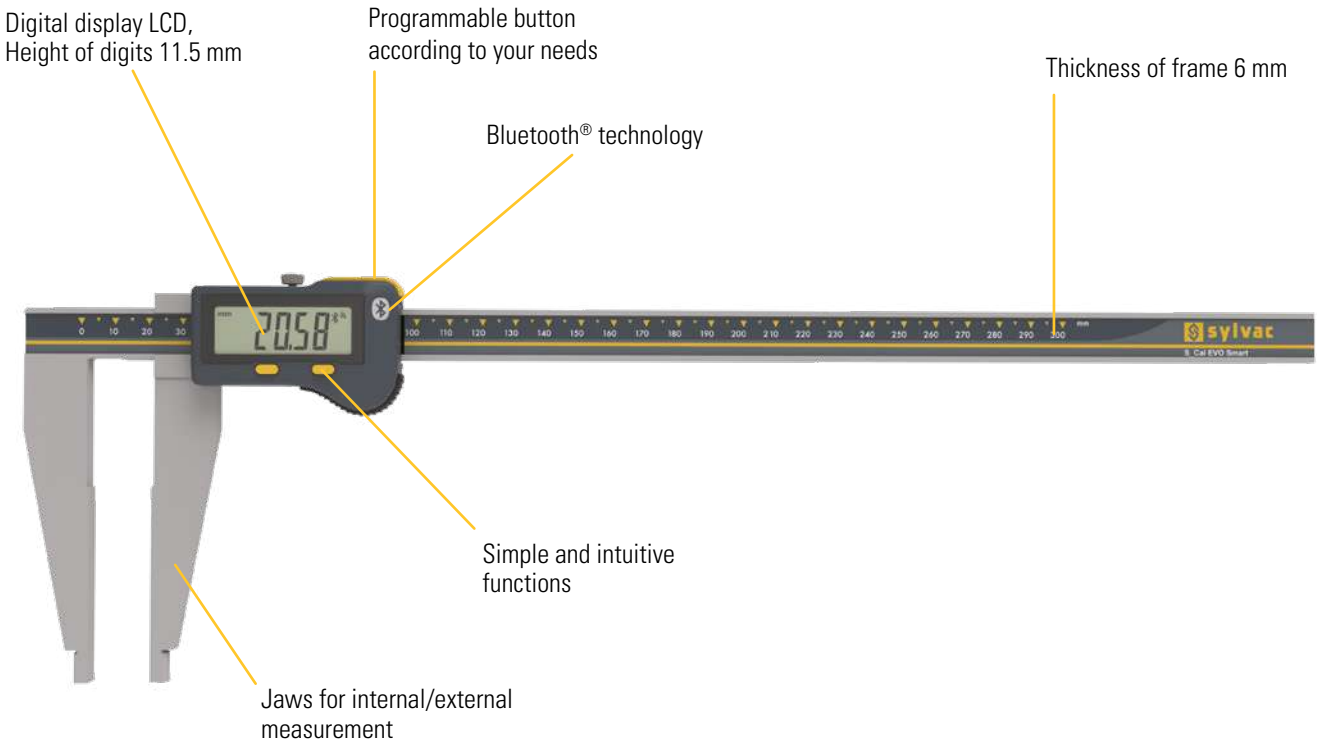
DESCRIPTION

MID SIZE CALIPER R5

- High-quality, ergonomic caliper with integrated Bluetooth® system
- Equipped with long, 100 or 120 mm long beaks with a clear end, enabling both external and internal dimensions to be measured from 10.1 mm upwards.
- Hardened and ground stainless steel rod 6 mm thick
- New extra-large display unit with 11.5 mm high digits
- Convenient push button for sending data that can also be programmed with another function
- Memorising the home position even when the instrument is switched off
- Measuring range 300 or 500 mm
- Protection class IP67

C

Built-in Bluetooth®



ISO 13385-1

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

Mid size caliper

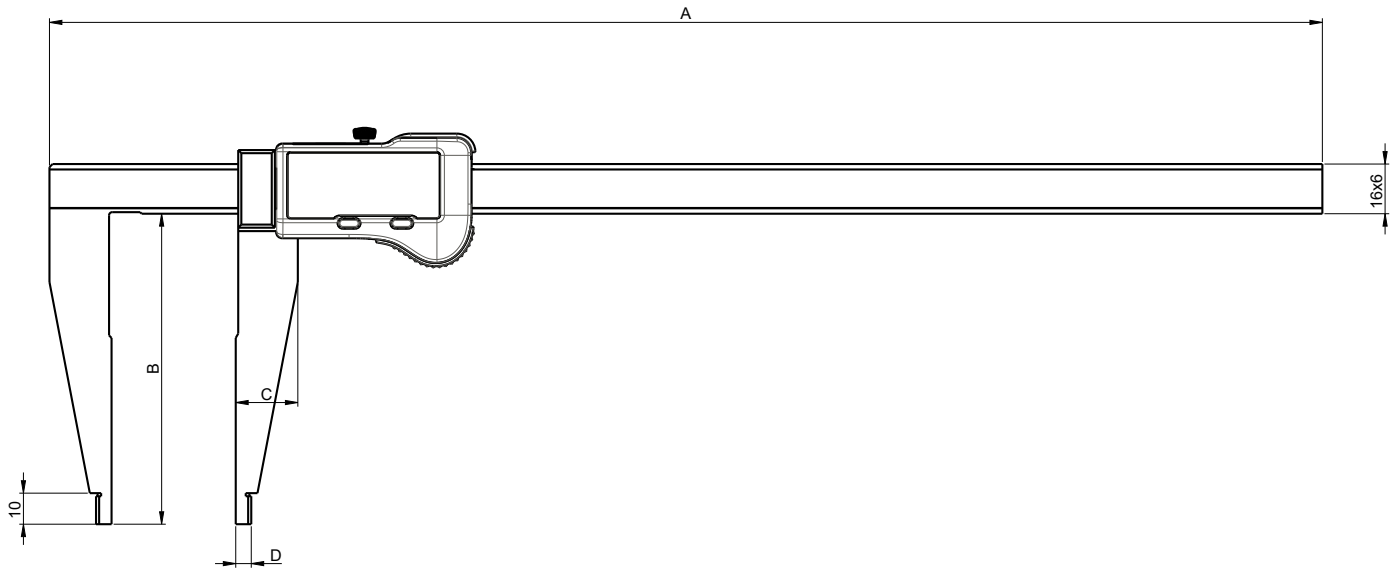
* SIS description on page 5

Caliper mid size

S_Cal EVO Form E

DIMENSIONAL DRAWING

MID SIZE CALIPER R5



TECHNICAL SPECIFICATIONS

		810-1547	810-1549
Measuring range	mm	300	500
Max. Error - external measurements E_{MPE}	µm	± 30 [1]	± 50 [1]
Max. Error - internal measurements S_{MPE}	µm	± 50 [2]	± 70 [2]
Resolution	mm	0.01	
A	mm	410	625
B	mm	100	120
C	mm	20	23
D	mm	5	7.5
Bar section	mm	16x6	
Protection rating according to IEC 60529		IP67	
Output data		Bluetooth® wireless technology	
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data	
Smart Inductive Sensor		●	

[1] 0-50 mm : ±20 µm / ISO13385-1
>50-300 mm : ±30 µm / ISO13385-1
>300-400 mm : ±40 µm / ISO13385-1
>400-500 mm : ±50 µm / ISO13385-1

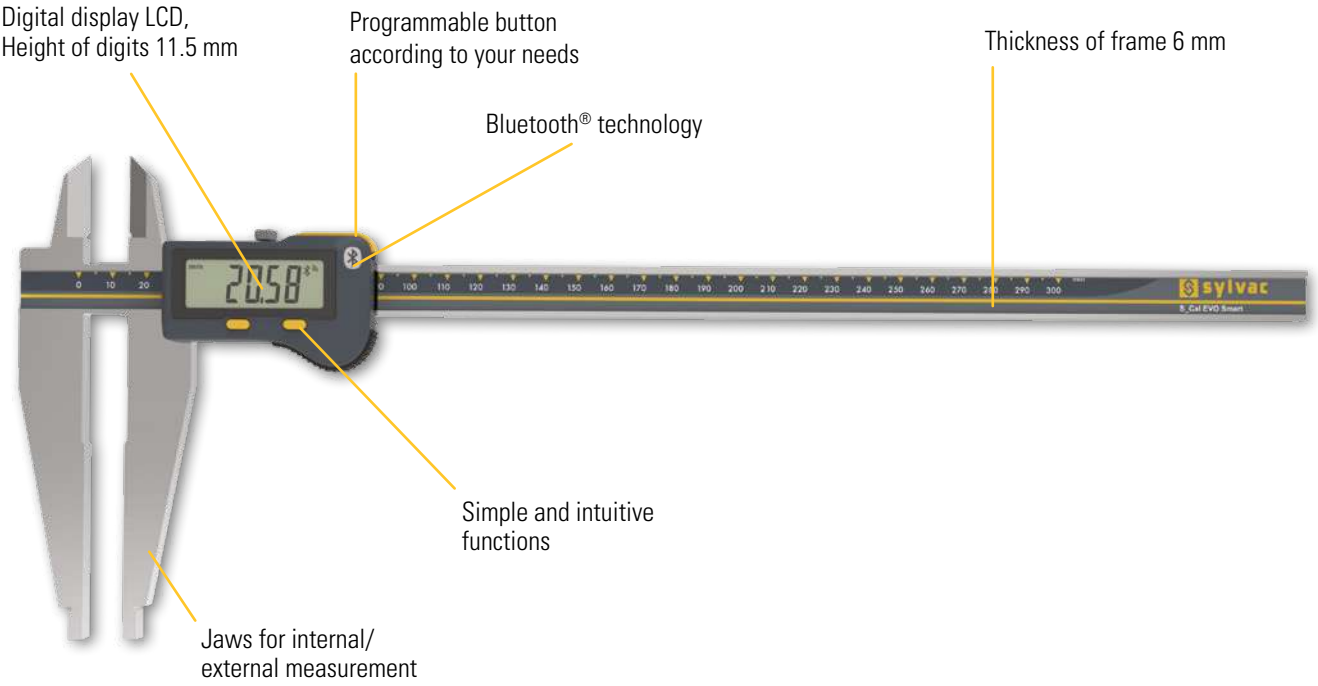
[2] 10-50 mm : ±30 µm / ISO13385-1
>50-300 mm : ±50 µm / ISO13385-1
>300-400 mm : ±60 µm / ISO13385-1
>400-500 mm : ±70 µm / ISO13385-1

Caliper mid size S_Cal EVO Form B

DESCRIPTION MID SIZE CALIPER R5 WITH UPPER JAWS

- High-quality, ergonomic caliper with integrated Bluetooth® system
- Equipped with long 100 or 120 mm beaks free at the end for measuring both external and internal dimensions from 10.1 mm and small top beaks for measuring internal dimensions.
- Hardened and ground stainless steel rod 6 mm thick
- New extra-large display unit with 11.5 mm high digits
- Convenient push button for sending data that can also be programmed with another function
- Memorising the home position even when the instrument is switched off
- Measuring range 300 and 500 mm
- Protection class IP67

Built-in Bluetooth®



ISO 13385-1

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

Mid size caliper with upper jaws

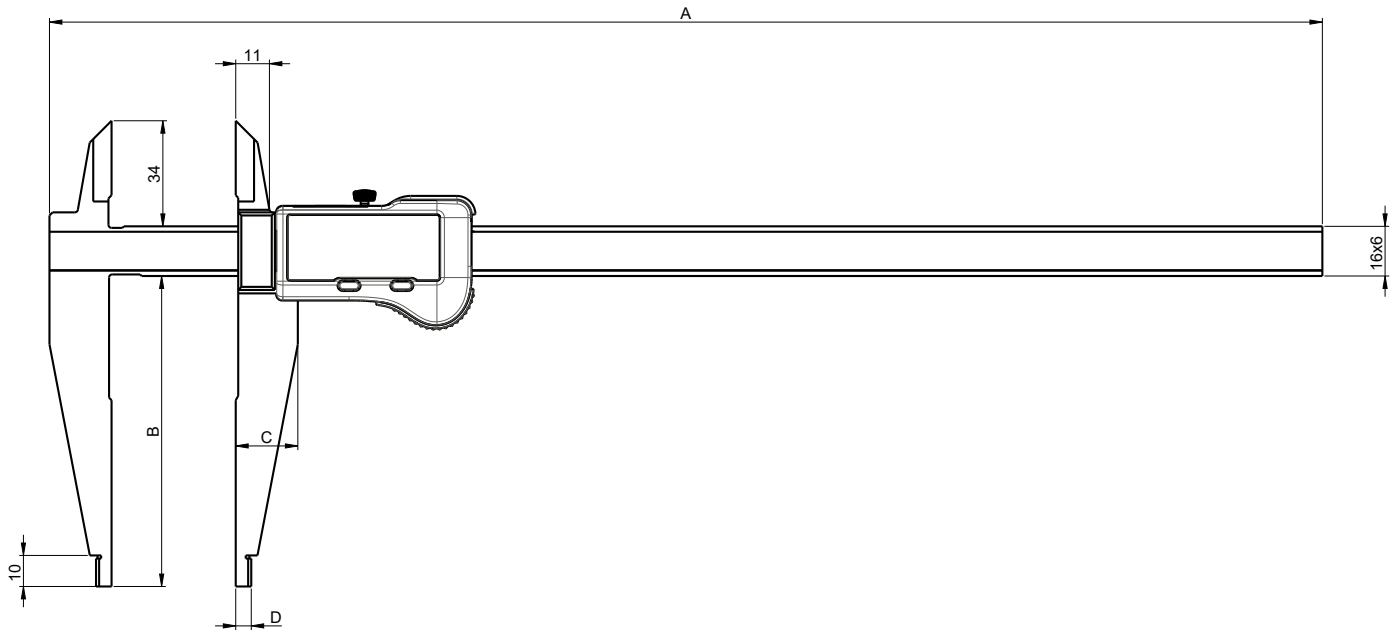
* SIS description on page 5

Caliper mid size

S_Cal EVO Form B

DIMENSIONAL DRAWING

MID SIZE CALIPER R5 WITH UPPER JAWS



C

TECHNICAL SPECIFICATIONS

		810-1557	810-1559
Measuring range	mm	300	500
Max. Error - external measurements E_{MPE}	µm	± 30 [1]	± 50 [1]
Max. Error - internal measurements S_{MPE}	µm	± 50 [2]	± 70 [2]
Resolution	mm	0.01	
A	mm	410	625
B	mm	100	120
C	mm	20	23
D	mm	5	7.5
Bar section	mm	16x6	
Protection rating according to IEC 60529		IP67	
Output data		Bluetooth® wireless technology	
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data	
Smart Inductive Sensor		●	

[1] 0-50 mm : ±20 µm / ISO13385-1
>50-300 mm : ±30 µm / ISO13385-1
>300-400 mm : ±40 µm / ISO13385-1
>400-500 mm : ±50 µm / ISO13385-1

[2] 10-50 mm : ±30 µm / ISO13385-1
>50-300 mm : ±50 µm / ISO13385-1
>300-400 mm : ±60 µm / ISO13385-1
>400-500 mm : ±70 µm / ISO13385-1

Depth gauge

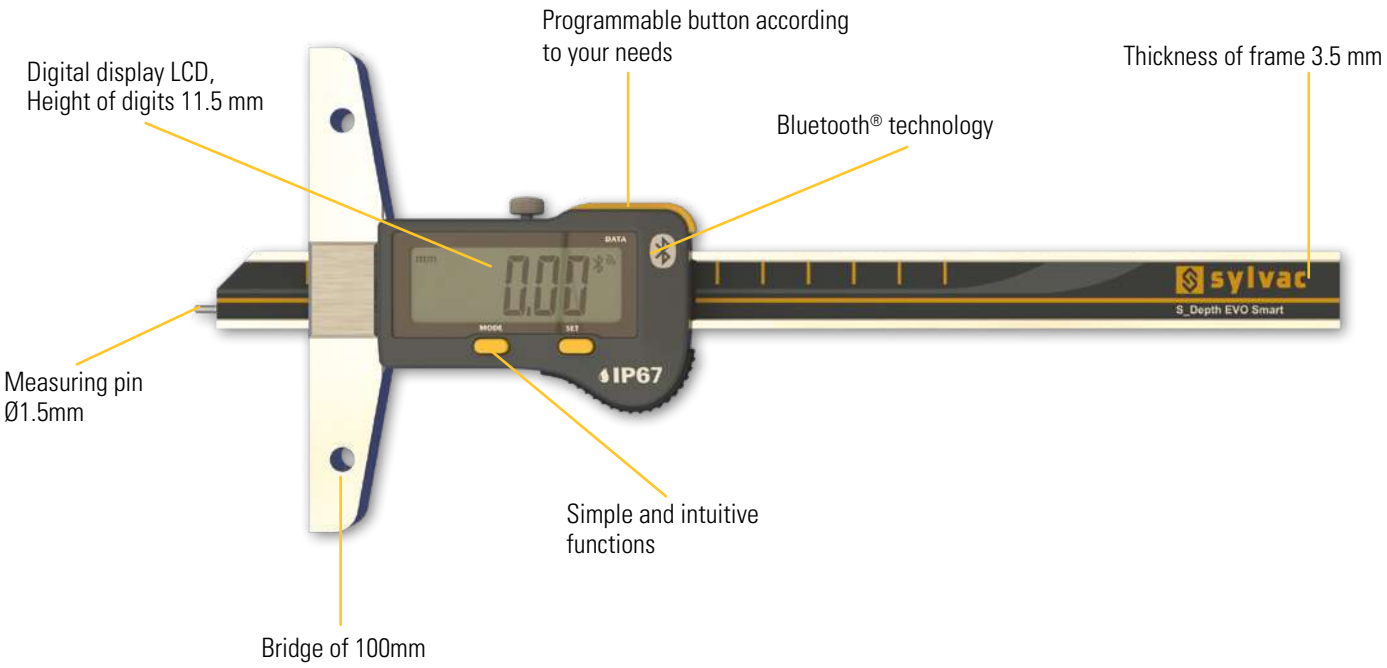
S_Depth EVO Smart

DESCRIPTION

PIN Ø1.5

- High-quality, ergonomic depth gauge with integrated Bluetooth® system
- 100 mm wide bridge with holes for the attachment of an additional wider bridge
- Hardened steel measuring pin Ø 1.5 mm x 5 mm
- 3.5 mm thick hardened and ground stainless steel frame
- New extra-large display unit with 11.5 mm high digits
- Convenient push button for sending data that can also be programmed with another function
- Memorising the home position even when the instrument is switched off
- Measuring range 150, 200 and 300 mm
- Protection class IP67

Built-in Bluetooth®



ISO 13385-2

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

Measuring pin Ø1.5mm

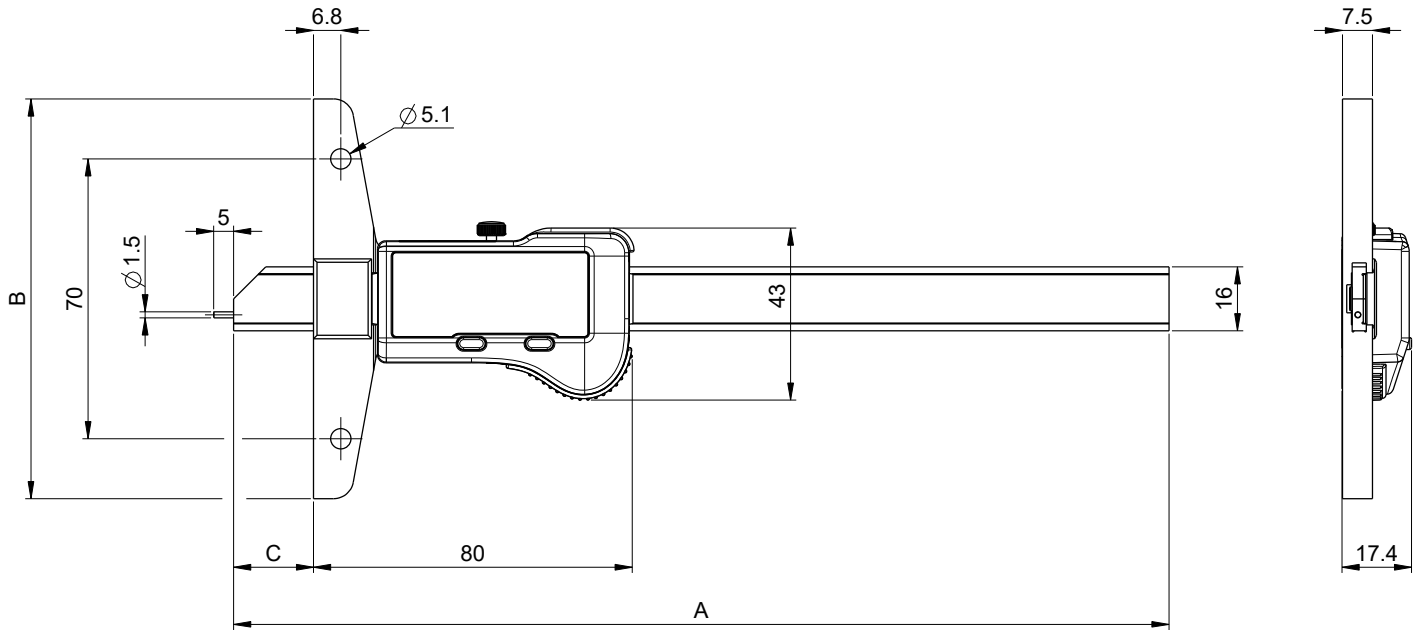
* SIS description on page 5

Depth gauge

S_Depth EVO Smart

DIMENSIONAL DRAWING

PIN Ø1.5



TECHNICAL SPECIFICATIONS

		812-1506	812-1526	812-1536
Measuring range	mm	150	200	300
Max. Error - depth measurements E_{MPE}	µm	20 [1]	30 [1]	30 [1]
Resolution	mm	0.01		
A	mm	234	284	384
B - Bridge	mm	100		
C	mm	0-152	0-202	0-302
Frame	mm	16x3.5		
Output data		Bluetooth® wireless technology		
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data		
Smart Inductive Sensor		●		

[1] 0-150 mm : 20 µm / (ISO13385-2)
>150-300 mm : 30 µm / (ISO13385-2)

Depth gauge

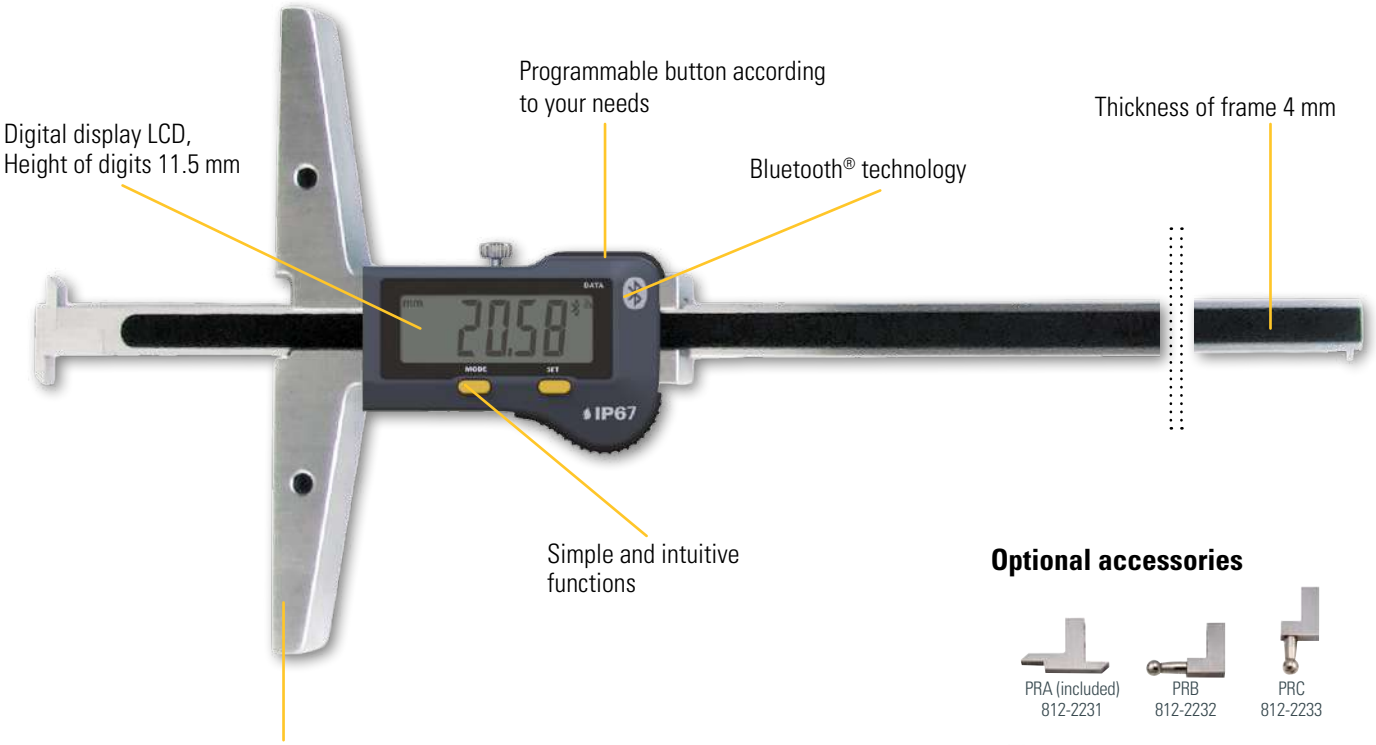
S_Depth EVO

DESCRIPTION

TWO FIXED MEASURING JAWS

- High-quality, ergonomic depth gauge with integrated Bluetooth® system
- 100 mm wide bridge with holes for the attachment of an additional wider bridge
- Interchangeable Up & Down measuring button
- Numerous other optional keys available for all kinds of measurements
- Hardened and ground stainless steel frame, thickness 4 mm
- New extra-large display unit with 11.5 mm high digits
- Convenient push button for sending data that can also be programmed with another function
- Memorising the home position even when the instrument is switched off
- Measuring range 300, 400 and 600 mm
- Protection class IP67

Built-in Bluetooth®



Optional accessories

ISO 13385-2

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

Interchangeable anvils

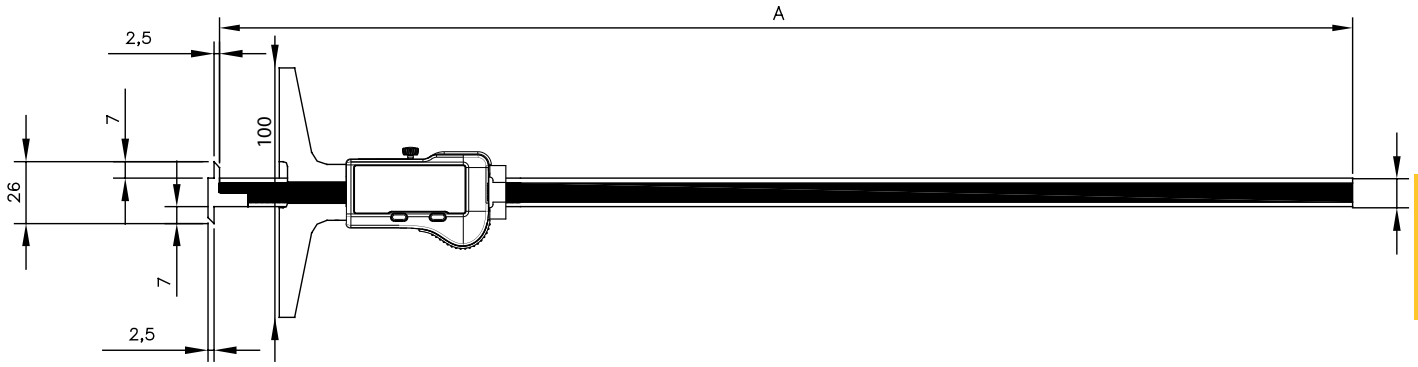
* SIS description on page 5

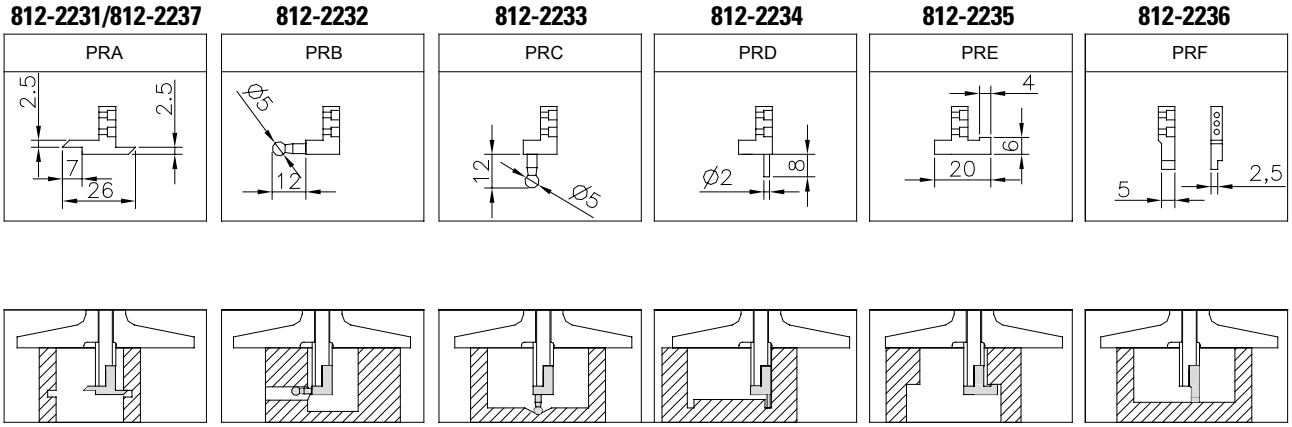
Depth gauge

S_Depth EVO

DIMENSIONAL DRAWING

TWO FIXED MEASURING JAWS





TECHNICAL SPECIFICATIONS

		812-1601	812-1603	812-1605
Measuring range	mm	200	300	500
Max. Error - depth measurements E_{MPE}	µm	30 [1]	30 [1]	50 [1]
Resolution	mm	0.01		
A	mm	300	400	600
B	mm	12x4		
Output data		Bluetooth® wireless technology		
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data		
Smart Inductive Sensor		●		

[1] 0-150 mm : 20 µm (ISO13385-2)
>150-300 mm : 30 µm / (ISO13385-2)
>300-400 mm : 40 µm / (ISO13385-2)
>400-500 mm : 50 µm / (ISO13385-2)

Depth gauge

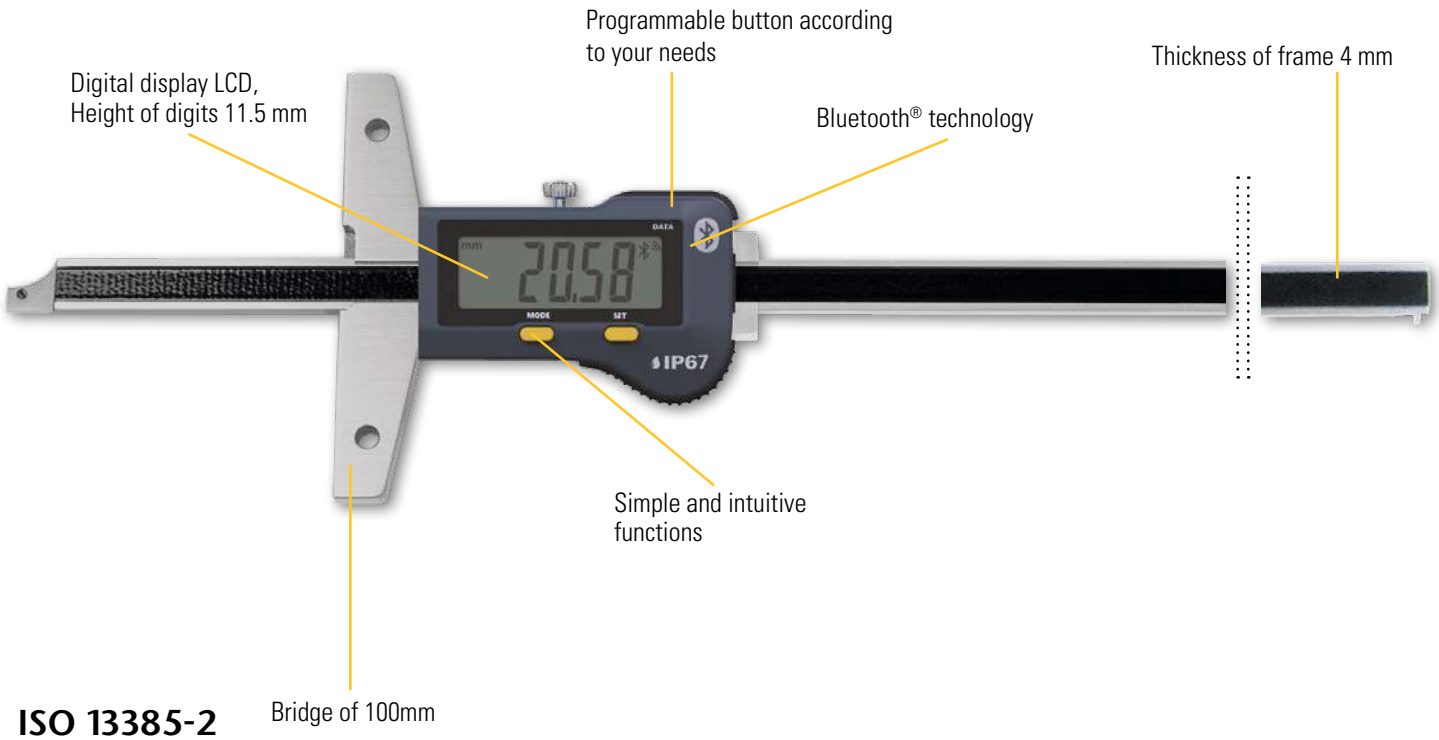
S_Depth EVO

DESCRIPTION

SHORTCUT MEASURING FACE

- High-quality, ergonomic depth gauge with integrated Bluetooth® system
- 100 mm wide bridge with holes for the attachment of an additional wider bridge
- Short measuring key 5 mm wide
- Hardened and ground stainless steel frame, thickness 4 mm
- New extra-large display unit with 11.5 mm high digits
- Convenient push button for sending data that can also be programmed with another function
- Memorising the home position even when the instrument is switched off
- Measuring range 300, 400 and 600 mm
- Protection class IP67

Built-in Bluetooth®



ISO 13385-2

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

Bridge of 100mm with clamping screw

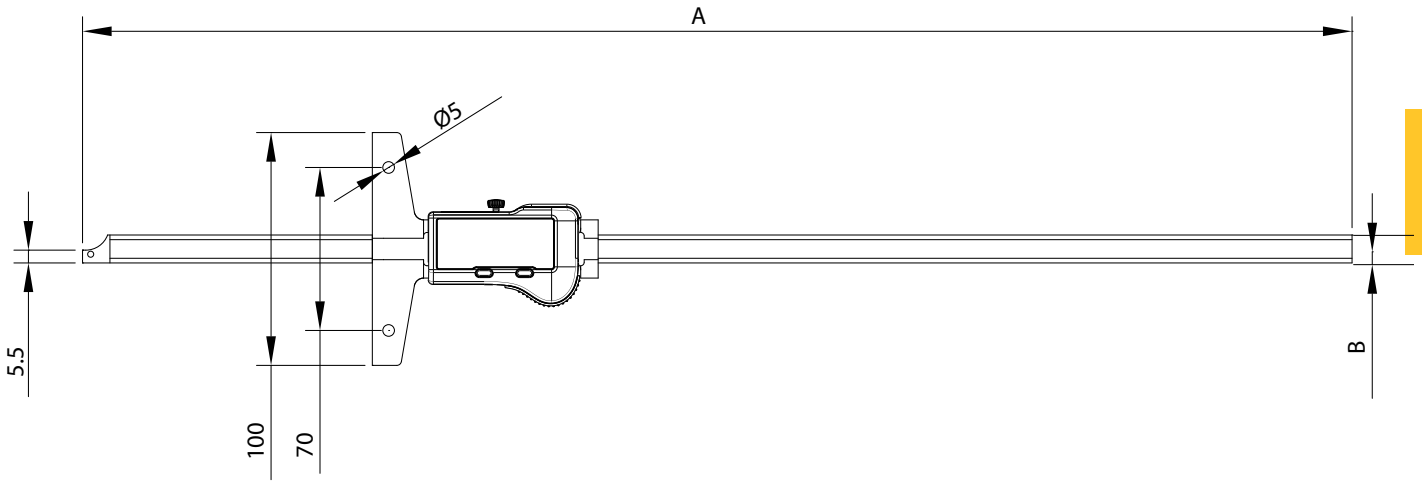
* SIS description on page 5

Depth gauge

S_Depth EVO

DIMENSIONAL DRAWING

SHORTCUT MEASURING FACE



C

TECHNICAL SPECIFICATIONS

		812-1611	812-1613	812-1615
Measuring range	mm	200	300	500
Max. Error - depth measurements E_{MPE}	µm	30 [1]	30 [1]	50 [1]
Resolution	mm	0.01		
A	mm	300	400	600
B	mm	12x4		
Output data		Bluetooth® wireless technology		
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data		
Smart Inductive Sensor		●		

[1] 0-150 mm : 20 µm (ISO13385-2)
>150-300 mm : 30 µm / (ISO13385-2)
>300-400 mm : 40 µm / (ISO13385-2)
>400-500 mm : 50 µm / (ISO13385-2)

Depth gauge

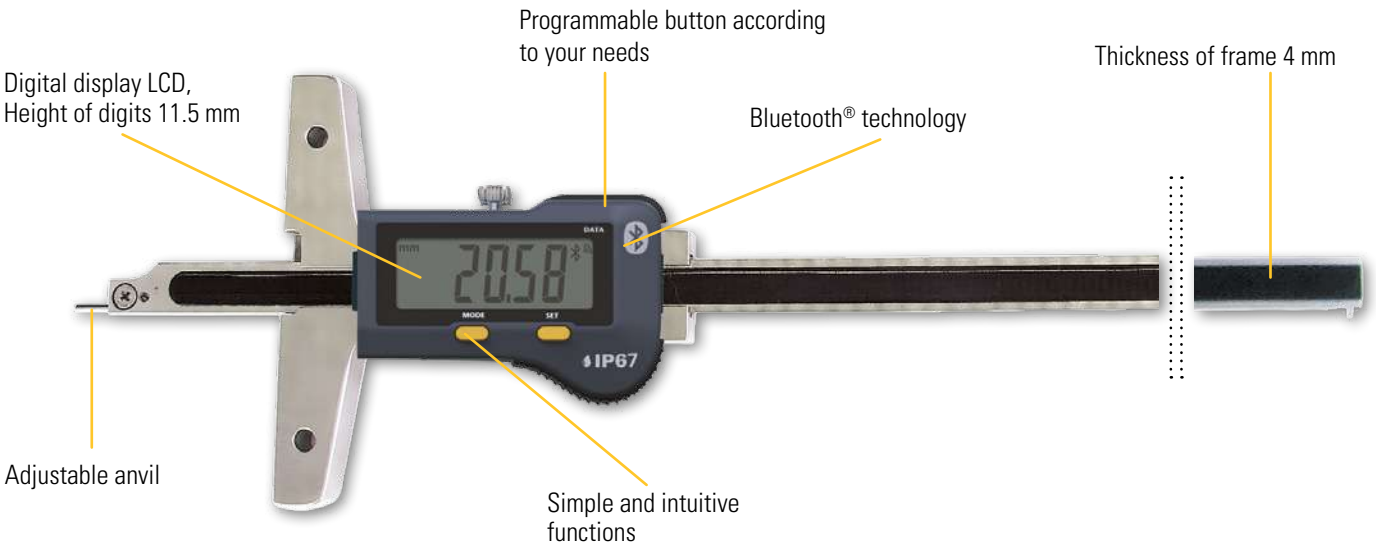
S_Depth EVO

DESCRIPTION

ROTARY PIN

- High-quality, ergonomic depth gauge with integrated Bluetooth® system
- 100 mm wide bridge with holes for the attachment of an additional wider bridge
- Measuring pin Ø 1.5 x 5 mm can be rotated and locked in the desired position by a clamping screw
- Hardened and ground stainless steel frame, thickness 4 mm
- New extra-large display unit with 11.5 mm high digits
- Convenient push button for sending data that can also be programmed with another function
- Memorising the home position even when the instrument is switched off
- Measuring range 300, 400 and 600 mm
- Protection class IP67

Built-in Bluetooth®



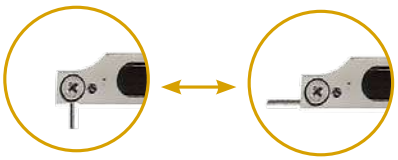
ISO 13385-2

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67



Adjustable anvil !

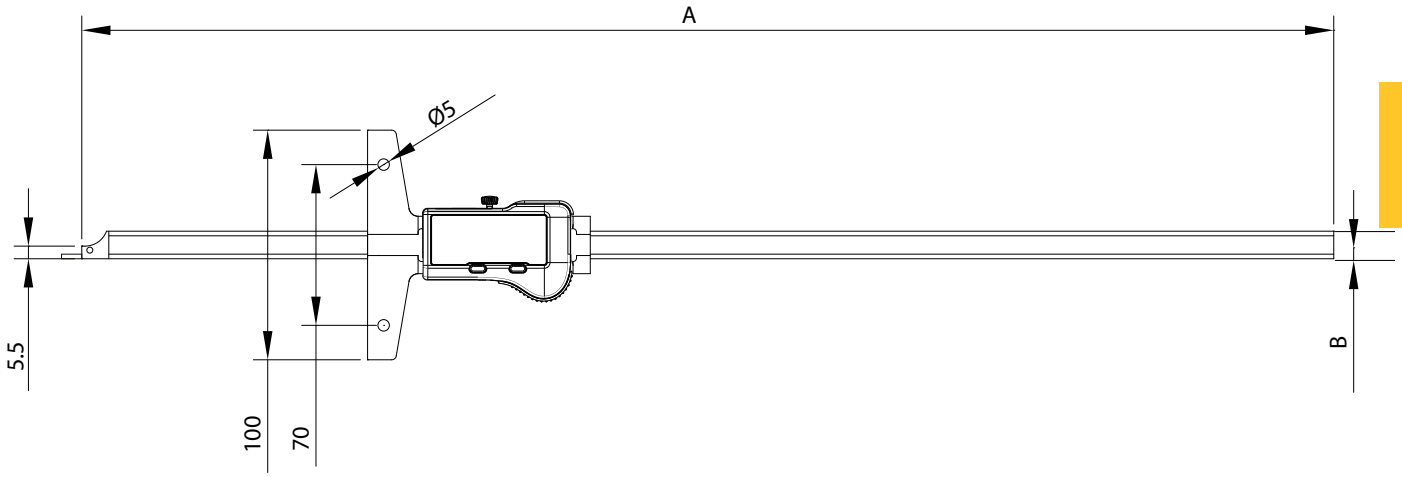
* SIS description on page 5

Depth gauge

S_Depth EVO

DIMENSIONAL DRAWING

ROTARY PIN



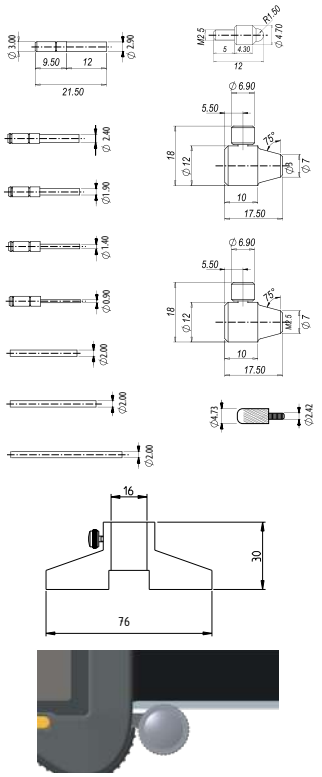
TECHNICAL SPECIFICATIONS

		812-1621	812-1623	812-1625
Measuring range	mm	200	300	500
Max. Error - depth measurements E_{MPE}	µm	30 [1]	30 [1]	50 [1]
Resolution	mm	0.01		
A	mm	300	400	600
B	mm	12x4		
Output data		Bluetooth® wireless technology		
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data		
Smart Inductive Sensor		●		

[1] 0-150 mm : 20 µm (ISO13385-2)
>150-300 mm : 30 µm / (ISO13385-2)
>300-400 mm : 40 µm / (ISO13385-2)
>400-500 mm : 50 µm / (ISO13385-2)

S_Cal / S_Depth

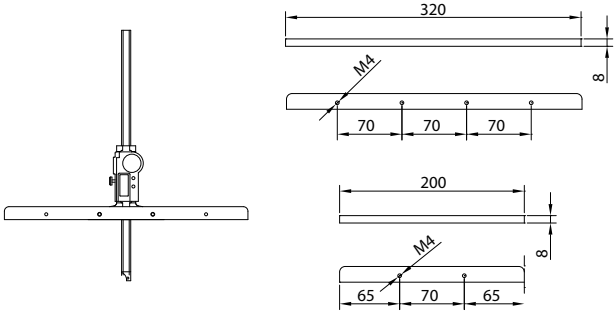
ACCESSORIES FOR CALIPERS



		S_Cal EVO Proximity S_Cal EVO Proximity µm	S_Cal EVO Basic	S_Cal EVO Smart S_Cal EVOSmart µm
910-2207	Accessory kit for S_Cal (12 pieces)	●	●	●
910-2205	Base for Depth Measurement	●	●	●
810-2203	Thumb wheel*			●
810-2204			●	
810-2205		●		
810-2000	Anvils M2.5/Ø2.5 Length 12mm	●	●	●

See also chapter cables.
* not for mid size models 810-1546, 810-1556, 810-1558

ACCESSORIES FOR SPECIAL DEPTH CALIPER (TJ / SF / RP)



		Length	Thickness
812-2240	Additional base	320	8
812-2241	Additional base	200	8

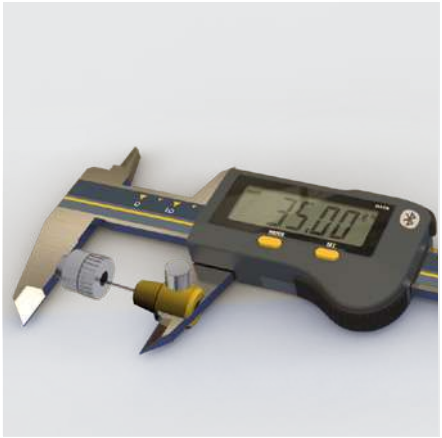
S_Cal / S_Depth

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate (S_Cal EVO µm)

APPLICATIONS

Depth measurement with S_Cal EVO and base 910-2205.



S_Cal EVO Smart with kit 910-2207
Depth measurement of small internal Ø

S_Cal EVO Standard measurement

Part measurement with S_Cal µm

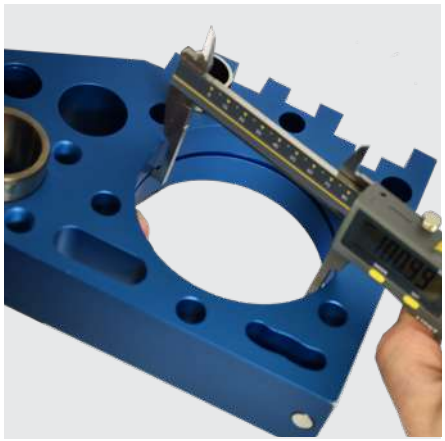
Part measurement with sending data

Depth measurement with S_Cal EVO

Special S_Cal & S_Depth

APPLICATIONS

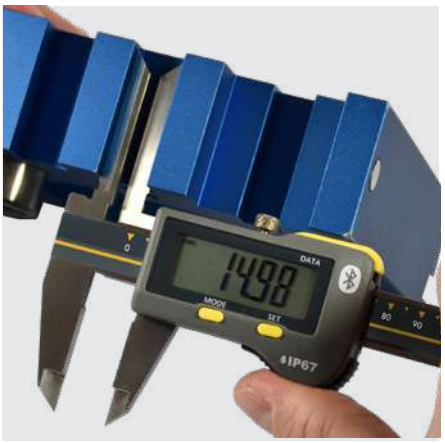
Internal groove measurement with
S_Cal EVO Smart IG



Internal groove measurement with
S_Cal EVO Smart IG

Internal measurement with S_Cal EVO Smart
PJ

Deep measurement with
S_Cal EVO Smart DM



Deep measurement with
S_Cal EVO Smart DM

External groove measurement with
S_Cal EVO Smart EG

External groove measurement with
S_Cal EVO Smart EG

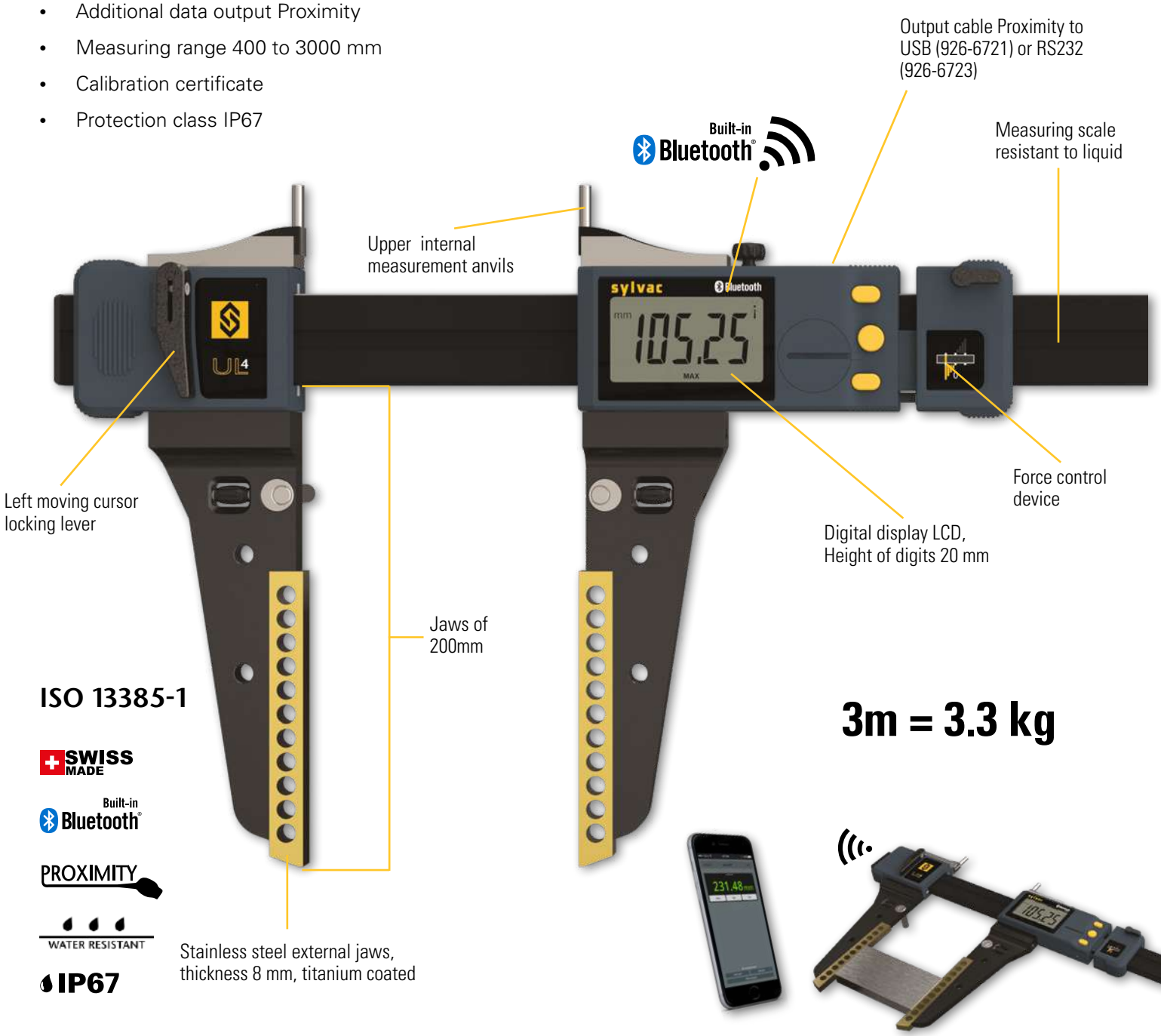
External groove measurement with
S_Cal EVO Smart EG

S_Depth EVO Smart TJ communicating with
Sylvac Anywhere App on touchpad

Ultra light caliper UL4

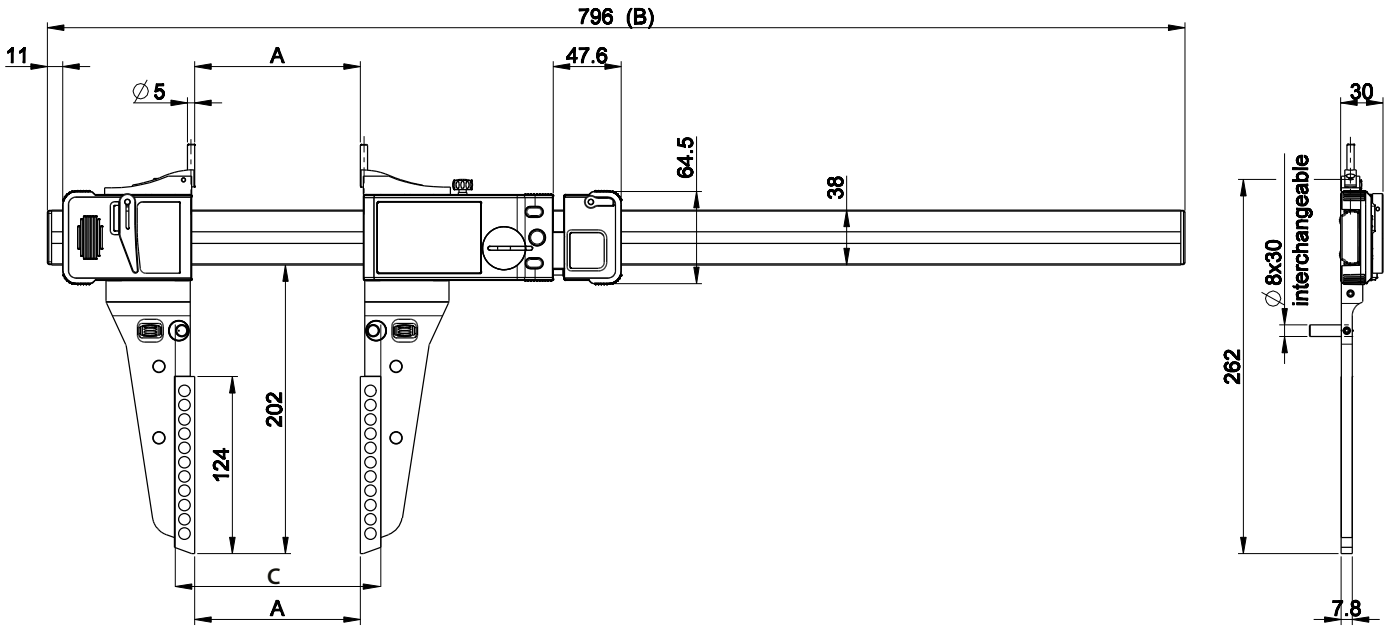
DESCRIPTION

- Ultra-light, large calipers with integrated Bluetooth® system
- Frame made of special aluminium profile reinforced with 4 stainless steel guide rods
- XXL display unit with digits 20 mm high
- Three buttons, including the central button with selectable favourite function
- Measuring force control device
- Long outer jaws 200 mm with measuring part made of hardened steel 124 x 8 mm coated with titanium nitride (TiN)
- On request, our UL4 calipers with jaws up to 400 mm long are available (please specify when ordering).
- Lever-lockable movable left jaw
- Removable upper studs with hardened metal pin Ø 5 mm for internal measurements
- Additional data output Proximity
- Measuring range 400 to 3000 mm
- Calibration certificate
- Protection class IP67



Ultra light caliper UL4

DIMENSIONAL DRAWING



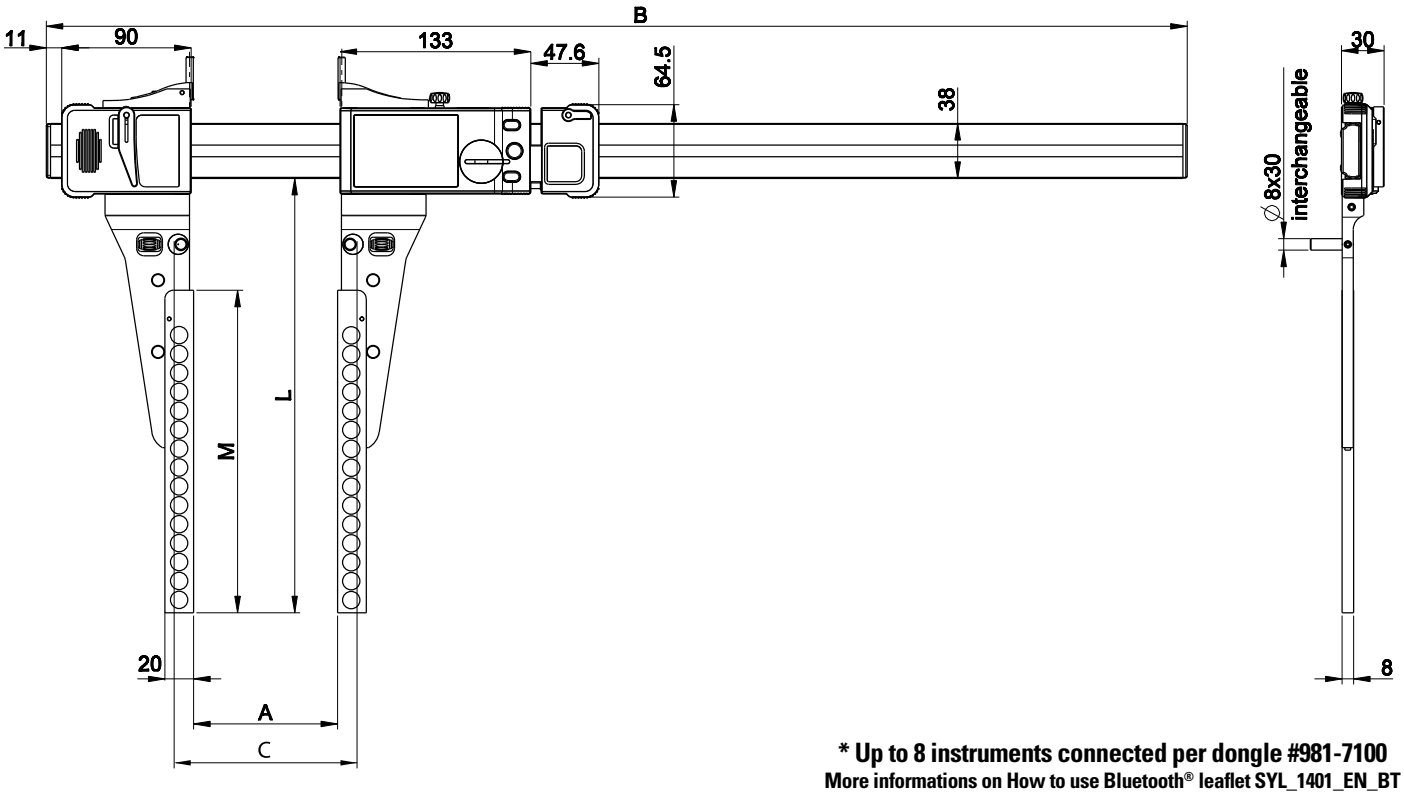
TECHNICAL SPECIFICATIONS

		811-1404	811-1406	811-1410	811-1415	811-1420	811-1425	811-1430
Model	mm	400	600	1000	1500	2000	2500	3000
Max.Error	µm	30	40	50	90	120	150	200
Repeatability	µm	20				30		
Resolution	mm	0.01						
A	mm	0-478	0-683	0-1093	0-1608	0-2123	0-2638	0-3153
C	mm	27-505	27-710	27-1110	27-1635	27-2150	27-2665	27-3180
B	mm	796	1001	1411	1926	2441	2956	3471
Measuring Force	N	7.5 - 11.5 (±20%)						
Output data		Bluetooth® wireless technology / RS232 / USB						
IP67 Protection		●						
Preset max.		±9999.99 mm / ±399.9995 IN						
Weight	kg	1.5	1.6	1.9	2.3	2.6	2.9	3.3
Setting by PC		●						
2 references		●						
Min/Max function		●						
Tolerance limit indicators		●						

Ultra light caliper UL4

SPECIAL EXECUTIONS | SPECIAL JAWS TYPE A

Built-in Bluetooth®



*** Up to 8 instruments connected per dongle #981-7100**
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

TECHNICAL SPECIFICATIONS

		811-2316-99*	811-2317-99*
Special jaws (pair)		Lenght L to specify with order (max 400 mm)	
L	mm	≤ 300	≤ 400
M	mm	L - 75	

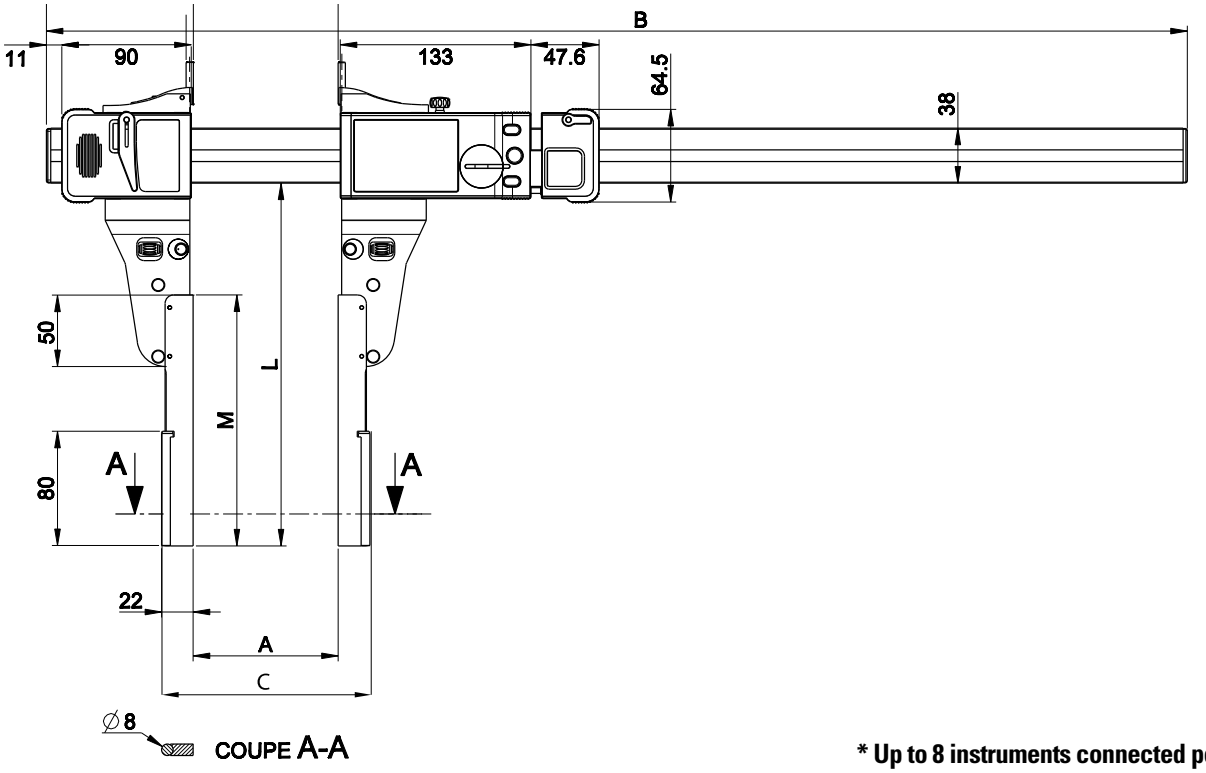
*Jaws must be mounted on a special UL4 of your choice

		UL 400 811-1404-99	UL 600 811-1406-99	UL 1000 811-1410-99	UL 1500 811-1415-99	UL 2000 811-1420-99	UL 2500 811-1425-99	UL 3000 811-1430-99
UL specification		**Max. error. [µm] / Repeatability [µm]**						
With Jaws 811-2316-99		40/20	50/20	70/20	130/30	180/40	220/40	320/40
With Jaws 811-2317-99		70/40	80/40	120/40	200/50	300/60	400/70	500/80
Measuring range	mm	400	600	1000	1500	2000	2500	3000
A	mm	0-478	0-683	0-1093	0-1608	0-2123	0-2638	0-3153
C	mm	27-505	27-710	27-1110	27-1635	27-2150	27-2665	27-3180
B	mm	796	1001	1411	1926	2441	2956	3471
Resolution	mm	0.01						

Ultra light caliper UL4

SPECIAL EXECUTIONS | SPECIAL JAWS TYPE C

Built-in Bluetooth®



*** Up to 8 instruments connected per dongle #981-7100**

C

TECHNICAL SPECIFICATIONS

		811-2319-99*
Special jaws (pair)		Lenght L to specify with order (max 300 mm)
L max	mm	300
M	mm	L - 75

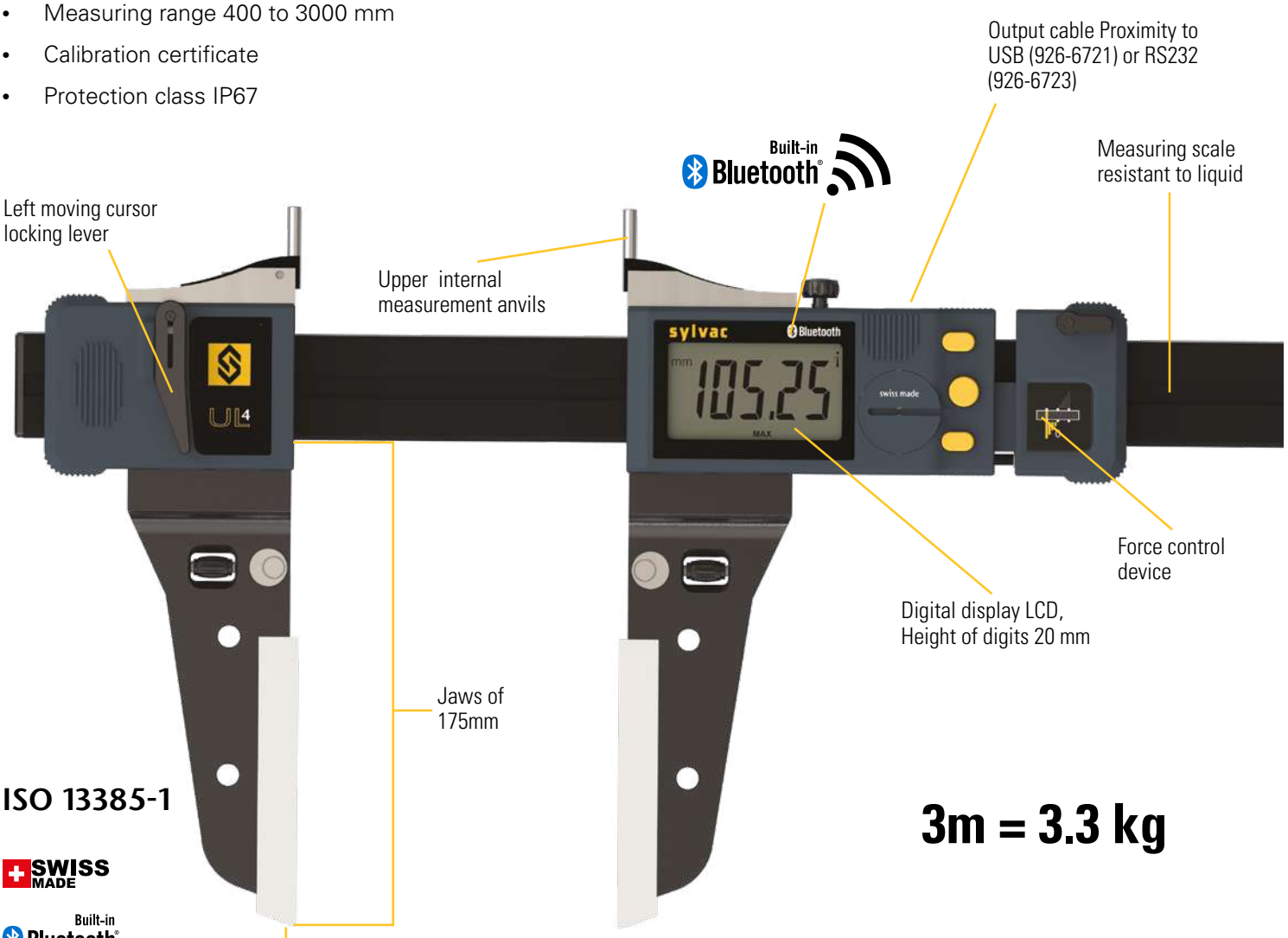
*Jaws must be mounted on a special UL4 of your choice

		UL 400 811-1404-99	UL 600 811-1406-99	UL 1000 811-1410-99	UL 1500 811-1415-99	UL 2000 811-1420-99	UL 2500 811-1425-99	UL 3000 811-1430-99
UL specification		**Max. error. [µm] / Repeatability [µm]**						
With Jaws ≤ 200	mm	40/20	50/20	70/30	120/30	170/30	210/30	300/40
With Jaws ≤ 300	mm	50/30	60/30	90/30	150/30	200/40	300/40	400/50
Measuring range	mm	400	600	1000	1500	2000	2500	3000
A	mm	0-478	0-683	0-1093	0-1608	0-2123	0-2638	0-3153
C	mm	44-522	44-727	44-1137	44-1652	44-2167	44-2682	44-3197
B	mm	796	1001	1411	1926	2441	2956	3471
Resolution	mm	0.01						

Ultra light caliper UL4

SPECIAL EXECUTIONS | SPECIAL CERAMICAL JAWS

- Ultra-light, large calipers with integrated Bluetooth® system
- Frame made of special aluminium profile reinforced with 4 stainless steel guide rods
- XXL display unit with digits 20 mm high
- Three buttons, including the central button with selectable favourite function
- Measuring force control device
- Long outer jaws 175 mm with measuring part made of non-magnetic ceramic, 104mm, wear-resistant
- Lever-lockable movable left jaw
- Removable upper studs with hardened metal pin Ø 5 mm for internal measurements
- Additional data output Proximity
- Measuring range 400 to 3000 mm
- Calibration certificate
- Protection class IP67



ISO 13385-1

SWISS MADE

Built-in Bluetooth®

PROXIMITY

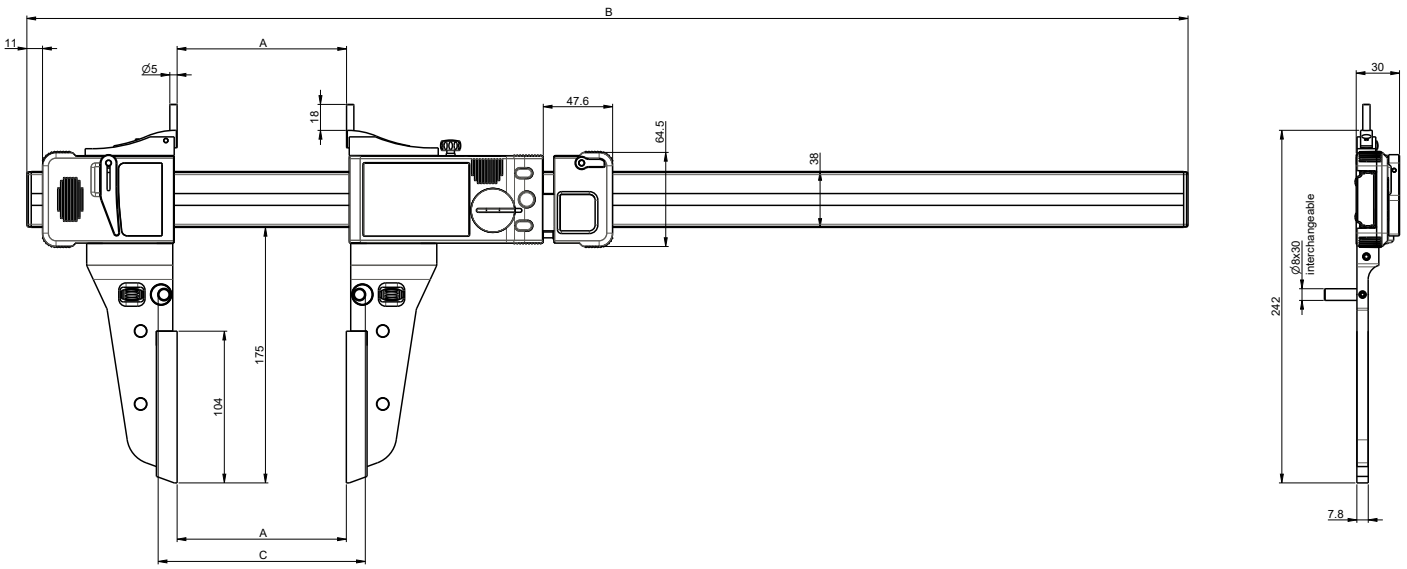
WATER RESISTANT

IP67

3m = 3.3 kg

Ultra light caliper UL4

SPECIAL EXECUTIONS | SPECIAL CERAMICAL JAWS



*** Up to 8 instruments connected per dongle #981-7100**

TECHNICAL SPECIFICATIONS

		811-2320-99*
Special jaws (pair)		
Jaws length	mm	175
Length of ceramic part	mm	104

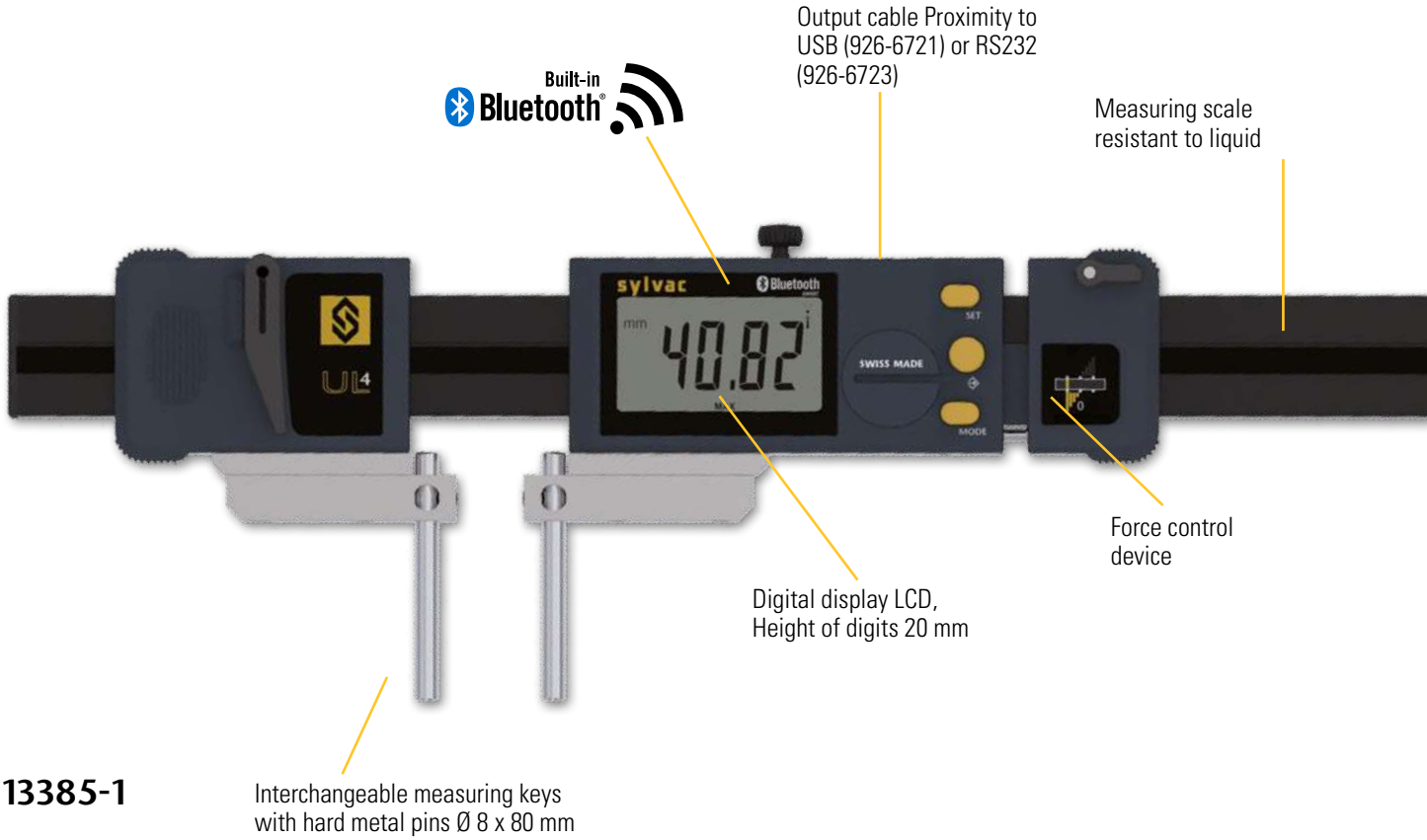
*Jaws must be mounted on a special UL4 of your choice

		UL 400 811-1404-99	UL 600 811-1406-99	UL 1000 811-1410-99	UL 1500 811-1415-99	UL 2000 811-1420-99	UL 2500 811-1425-99	UL 3000 811-1430-99
UL specification		**Max. error. [µm] / Repeatability [µm]**						
With ceramical jaws	mm	30/20	40/20	50/20	90/20	120/30	150/30	200/30
Measuring range	mm	400	600	1000	1500	2000	2500	3000
Measuring force	N	7.5 - 11.5 (±20%)						
Weight	kg	1.5	1.6	1.9	2.3	2.6	2.9	3.3
A	mm	0-478	0-683	0-1093	0-1608	0-2123	0-2638	0-3153
C	mm	27-505	27-710	27-1110	27-1635	27-2150	27-2665	27-3180
B	mm	796	1001	1411	1926	2441	2956	3471
Resolution	mm	0.01						

Ultra light caliper ULH4

DESCRIPTION

- Ultra-light, large universal instrument with integrated Bluetooth® system
- Frame made of special aluminium profile reinforced with 4 stainless steel guide rods
- New XXL display unit with digits 20 mm high
- Three buttons, including the central button with selectable favourite function
- Measuring force control device
- Supplied with interchangeable measuring keys with hard metal pins Ø 8 x 80 mm
- Numerous other measuring keys available as options
- Lever-lockable movable left jaw
- Additional data output Proximity
- Measuring range 400 to 3000 mm
- Protection class IP67



ISO 13385-1

SWISS MADE

Built-in Bluetooth®

PROXIMITY

WATER RESISTANT

IP67

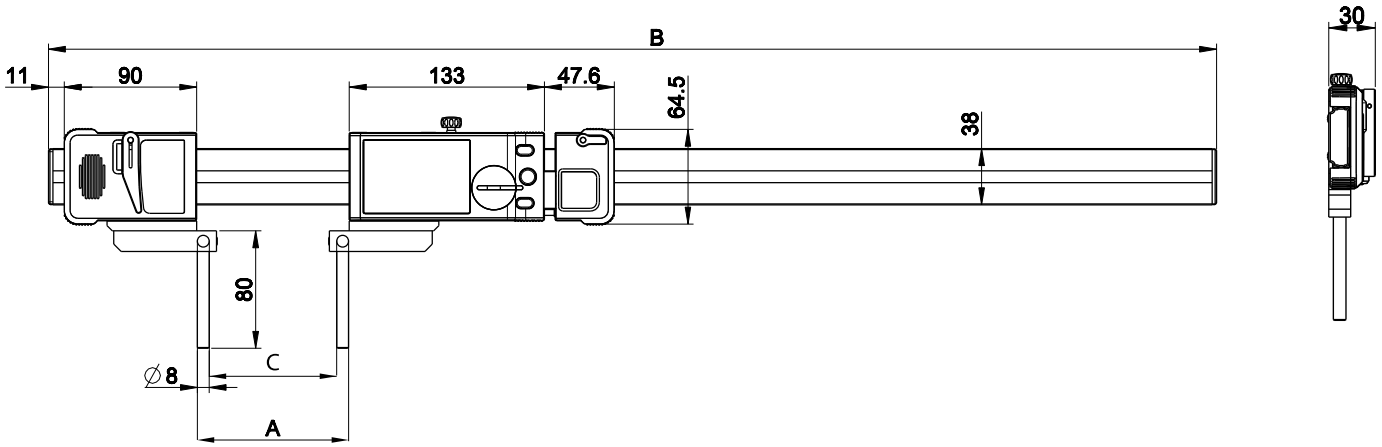
Interchangeable keys

Ultra light caliper

UL H4

DIMENSIONAL DRAWING

Built-in Bluetooth®



TECHNICAL SPECIFICATIONS

		811-8040	811-8060	811-8100	811-8150	811-8200	811-8250	811-8300
Model	mm	400	600	1000	1500	2000	2500	3000
Max.Error	µm	30	40	50	90	120	150	200
Repeatability	µm	20				30		
Resolution	mm	0.01						
A	mm	26-480	26-685	26-1095	26-1610	26-2125	26-2640	26-3155
C	mm	10-464	10-669	10-1079	10-1594	10-2109	10-2624	10-3139
B	mm	796	1001	1411	1926	2441	2956	3471
Measuring Force	N	7.5 - 11.5 (±20%)						
Output data		Bluetooth® wireless technology / RS232 / USB						
IP67 Protection		●						
Preset max.		±9999.99 mm / ±399.9995 IN						
Weight	kg	1.1	1.2	1.5	1.9	2.2	2.5	2.9
Setting by PC		●						
2 references		●						
Min/Max function		●						
Tolerance limit indicators		●						

Ultra light depth gauge

UL V4

DESCRIPTION

- Large, ultra-lightweight depth gauge with integrated Bluetooth® system
- Frame made of special aluminium profile reinforced with 4 stainless steel guide rods
- Bridge width 400/600 mm with holes for the attachment of an additional wider bridge
- New XXL display unit with digits 20 mm high
- Three buttons, including the central button with selectable favourite function
- Supplied with interchangeable hard metal measuring keys Ø 8 x 80 mm swivelling
- Additional data output Proximity
- Measuring range 1000 and 1500 mm
- Protection class IP67

C

ISO 13385-2

SWISS MADE

Built-in Bluetooth

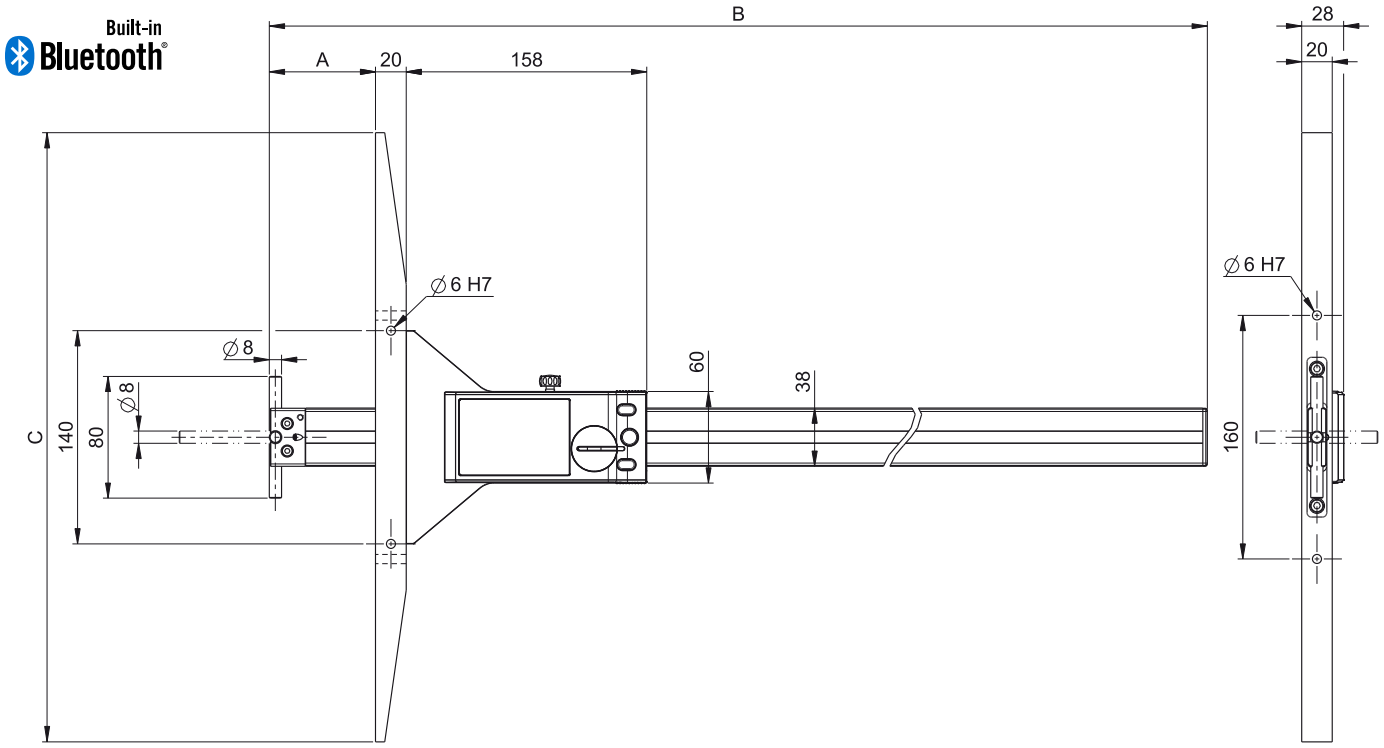
PROXIMITY

WATER RESISTANT

IP67

Ultra light depth gauge UL V4

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		811-6100	811-6150
Model	mm	1000	1500
Max.Error	µm	100	130
Repeatability	µm	20	
Resolution	mm	0.01	
A	mm	0 - 1030	0 - 1545
C	mm	400	600
B	mm	1242	1757
Output data		Bluetooth® wireless technology / RS232 / USB	
IP67 Protection		●	
Preset max.		±9999.99 mm / ±399.9995 IN	
Weight	kg	2.2	3.16
Setting by PC		●	
2 references		●	
Min/Max function		●	
Tolerance limit indicators		●	

Ultra light digital scale

UL D4

DESCRIPTION

- Ultra-light, large linear ruler with integrated Bluetooth® system
- Frame made of special aluminium profile reinforced with 4 stainless steel guide rods with fixing holes
- New XXL display unit with digits 20 mm high
- Three buttons, including the central button with selectable favourite function
- Supplied with a drive bar that can be positioned at the top or bottom of the display.
- Additional data output Proximity
- Measuring range 1000 and 3000 mm
- On request, several rulers can be joined together to increase the measuring range.
- Protection class IP67

C

ISO 13385-1

SWISS MADE

Built-in Bluetooth®

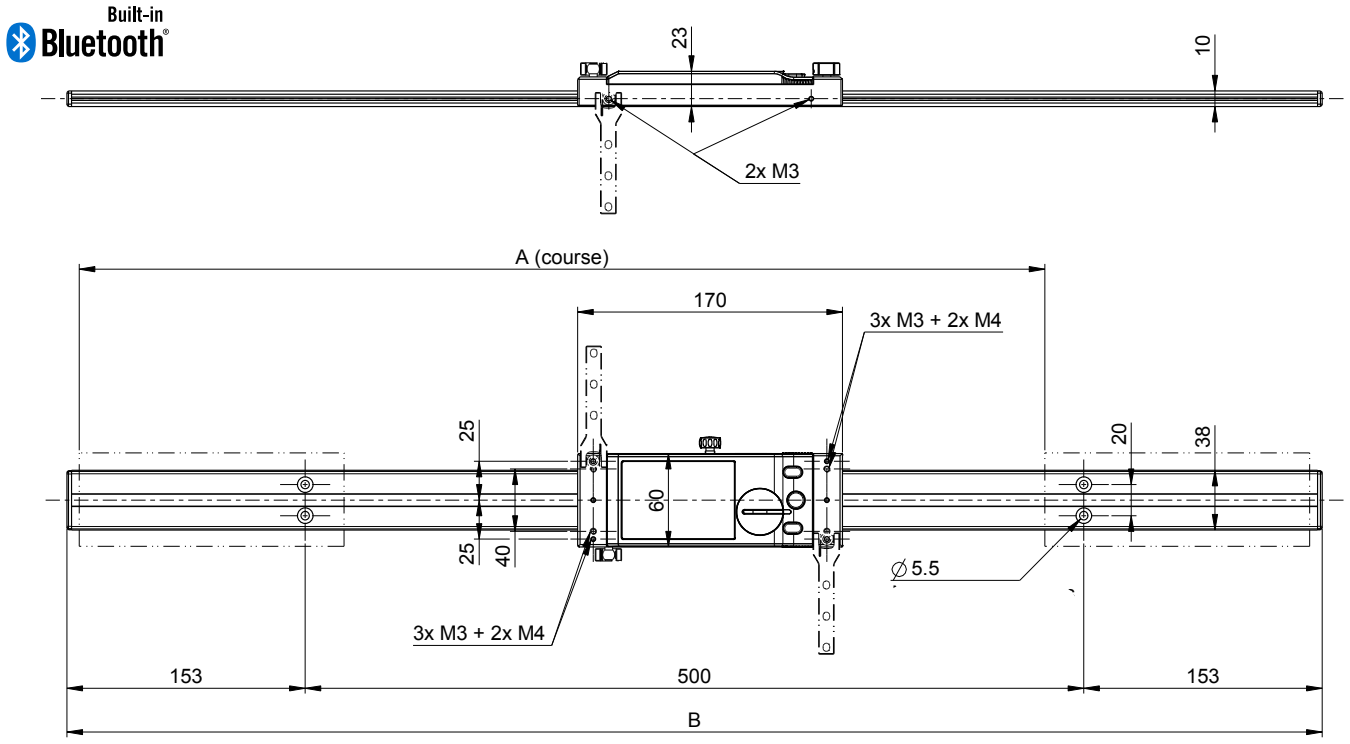
PROXIMITY

WATER RESISTANT

IP67

Ultra light digital scale UL D4

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

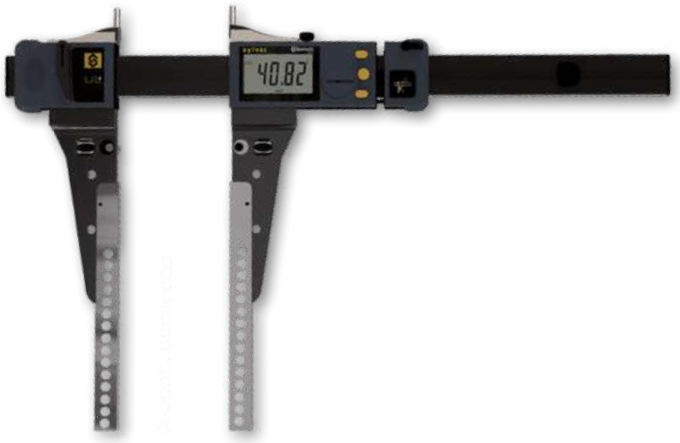
		814-1510	814-1515	814-1520	814-1525	814-1530
Model	mm	1000	1500	2000	2500	3000
Max.Error	µm	60	90	120	150	200
Repeatability	µm	20				
Resolution	mm	0.01				
A	mm	0 - 1120	0 - 1620	0 - 2120	0 - 2620	0 - 3120
B	mm	1306	1806	2306	2806	3306
Number range of raws		3	4	5	6	7
Output data		Bluetooth® wireless technology / RS232 / USB				
IP67 Protection		●				
Preset max.		±9999.99 mm / ±399.9995 IN				
Weight	kg	1.2	1.5	1.8	2.2	2.5
Setting by PC		●				
2 references		●				
Min/Max function		●				
Tolerance limit indicators		●				

Ultra light caliper UL4

STANDARD DELIVERY

UL4 Standard

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Calibration certificate for UL up to 3000mm
- Upper internal measurement anvil (811-2323 - 2pcs)
- Universal base 811-2301
- Instruction manual



UL4 Special Jaws Type A

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Special long jaws Type A (811-2316-99 or 811-2317-99)
- Length of jaws to specify when order (max. 400mm)
- Instruction manual

UL4 Special Jaws Type C

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Special long jaws Type C (811-2319-99)
- Length of jaws to specify when order (max. 300mm)
- Instruction manual

Ultra light caliper

STANDARD DELIVERY

UL4 ceramical jaws

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Special ceramical jaws 811-2320-99)
- Calibration certificate for UL up to 3000mm
- Upper internal measurement anvil (811-2323 - 2pcs)
- Universal base 811-2301
- Instruction manual

ULH4

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Calibration certificate for UL up to 3000mm
- Universal base 811-2301
- Anvil holder 811-2302
- Long cylindrical anvil Ø8x80mm (811-2324)
- Instruction manual

ULV4

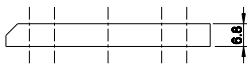
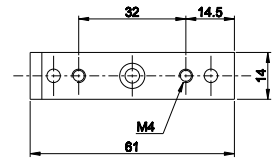
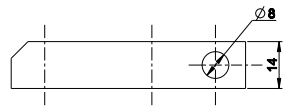
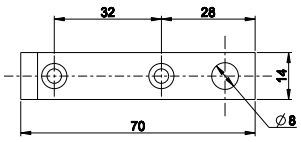
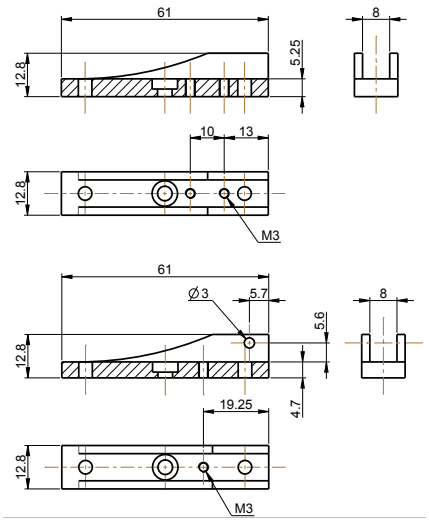
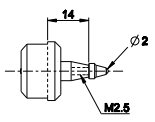
- Instrument according to technical specifications
- Lithium battery CR2477 included
- Long cylindrical anvil Ø8x80mm (811-2324)
- Bridge 400mm or 600mm
- Instruction manual

ULD4

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Driving shaft
- Instruction manual

Ultra light caliper

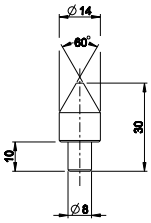
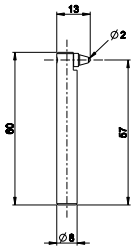
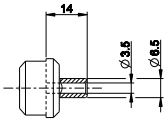
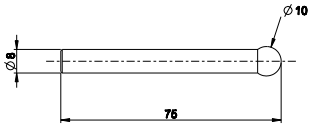
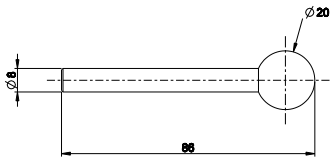
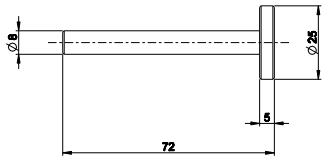
ACCESSORIES

		UL4	UL H4	ULV4	UL D4
	**811-2301** Universal base (2 pieces)	●	●		
					
	**811-2302** Ø8 Anvil holder (2 pieces, to combine with 811-2301)	●	●		
					
	**811-2303** Accessories holder (2 different pieces)	●	●		
	**811-2305** Support with int. thread M 2.5 (2 pieces)	●			

See also cables chapter

Ultra light caliper

ACCESSORIES

		UL4	UL H4	ULV4	UL D4
	**811-2307**	Inserts in hardened steel, cone 60° for bore clearance measurement > 10 mm, (2 pieces)	●	●		
	**811-2309**	Holder for dial gauge contact points for internal groove measurement, (2 pieces)	●	●		
	**811-2304**	Thread anvils holders (2 pieces)	●			
	**811-2310**	Anvil Ø10mm (2 pieces)	●	●		
	**811-2311**	Anvil Ø20mm (2 pieces)	●	●		
	**811-2312**	Anvil Ø25x5mm (2 pieces)	●	●		
	811-6306	Wooden box for UL4 400 and 600mm	●	●		
	811-6310	Wooden box for UL4 1000mm	●	●		
	811-6315	Wooden box for UL4 1500mm	●	●		

See also cables chapter

Ultra light caliper

ACCESSORIES

		UL4	UL H4	ULV4	UL D4
811-2322	Lower internal anvil (2 pieces)	●	●		
811-2323	Upper internal measurement anvil (2 pieces)* (to combine with 811.2303)	●	●		
811-2324	Long cylindrical anvil Ø8x80mm (2 pieces) (to combine with 811-2302 & 811-2301)	●	●		
811-2325	Cylindrical anvil Ø8x30mm (2 pieces)	●	●		

APPLICATIONS

Internal measure with UL4

External measure with UL4

MICROMETERS

Historically, the micrometric screw was invented by William Gascoigne in the 17th century and it was Jean-Laurent Palmer who applied the principle to the measurement of small distances in 1848. Another classic length-measuring instrument, the micrometer provides greater precision than the caliper. Whereas a drum lathe generally represents a spindle displacement of 0.5 mm, Sylvac had the brilliant idea of developing revolutionary fast-feed micrometers in various versions, which can be discovered in this chapter.

GENERAL CHARACTERISTICS :

- **Accuracy according to DIN 863 / ISO 3611**
- **Powered by lithium battery type CR2032**
- **Absolute measuring system S.I.S**
- **Automatic sleep and wake-up**
- **mm/inch conversion on all models**
- **Working temperature +5° to +40°C**

Professional micrometer

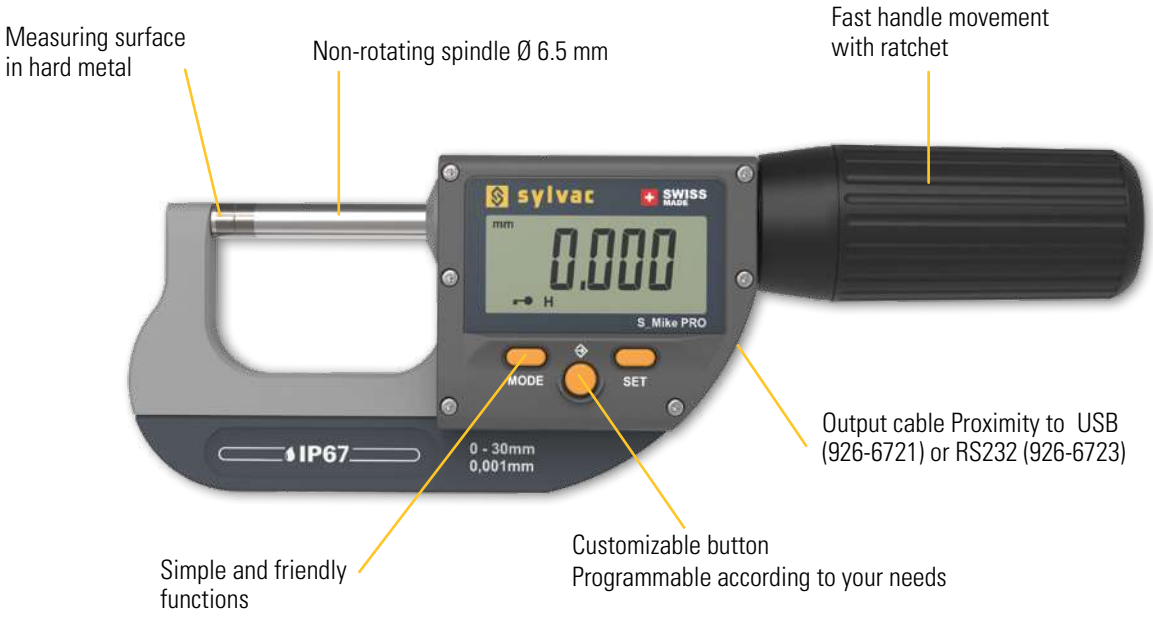
S_Mike PRO

DESCRIPTION

CYLINDRICAL Ø6.5

- High-speed micrometer with non-rotating spindle
- Linear spindle feed 10 mm per revolution
- Measuring range greater than traditional micrometers
- Tungsten carbide measuring anvils Ø 6.5 mm
- Display resolution 0.001 mm
- Ratchet system cancels operator influence and guarantees excellent repeatability
- Switchable measuring force 5 or 10 N for the 0-30 mm model
- Proximity data output
- Measuring range up to 161 mm
- Protection class IP67

D



DIN 863

PROXIMITY

SIS Smart Inductive System

WATER RESISTANT

IP67

SWISS MADE

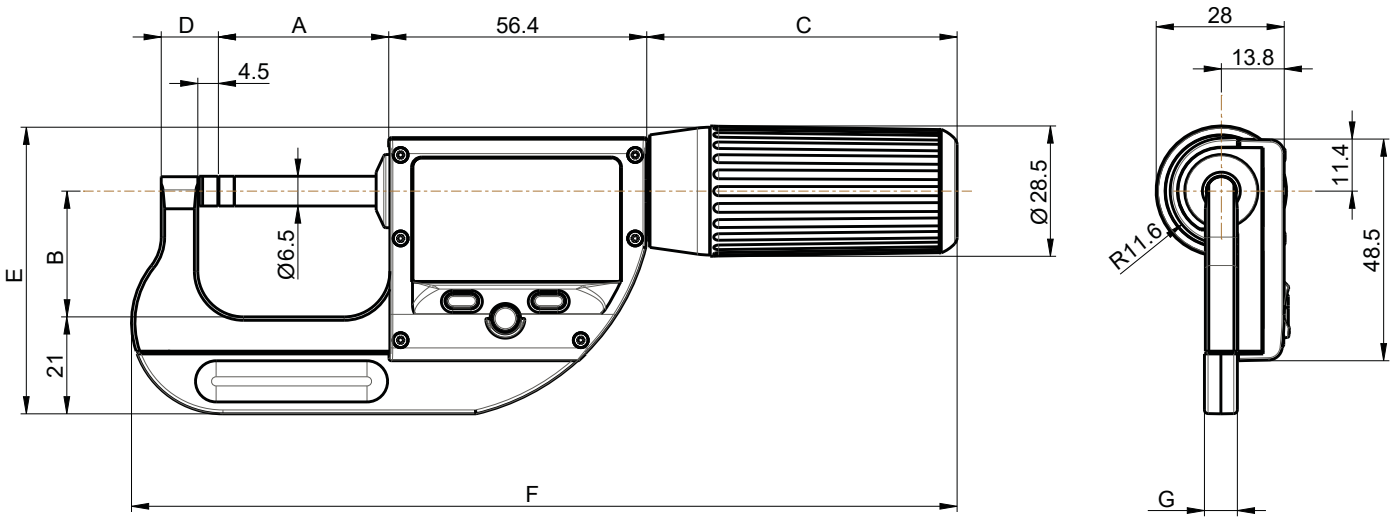
* SIS description on page 5

Professional micrometer

S_Mike PRO

DIMENSIONAL DRAWING

CYLINDRICAL Ø6.5



D

TECHNICAL SPECIFICATIONS

		803-0300	903-0600	903-1000	903-1360	903-1600
Measuring range	mm	0-30	30-66	66-102	100-136	125-161
Max. Error MPE_J [1]	µm	3	4	5	7	8
Repeatability [2]	µm	1	1	1	2	2
Anvils types		Ø6.5				
A	mm	37.3	73.3	109.3	143.3	168.3
B	mm	27.5	43	60	95	110
C	mm	68	74	74	74	74
D	mm	12.5	13.5	14.5	19.5	19.5
E	mm	63	86	106	151	169
F	mm	181	230	269	306	339
G	mm	7.2	9	9	9	9
Output data		USB / RS 232 [3]				
Prot. rating accor. to IEC 60529		IP67 even connected				
Setting by PC		●				
Adjustable measuring force		5N / 10N	10N			
Non-rotating spindle		●				
Fast movement		●				
Preset function		●				
Smart Inductive Sensor		●				

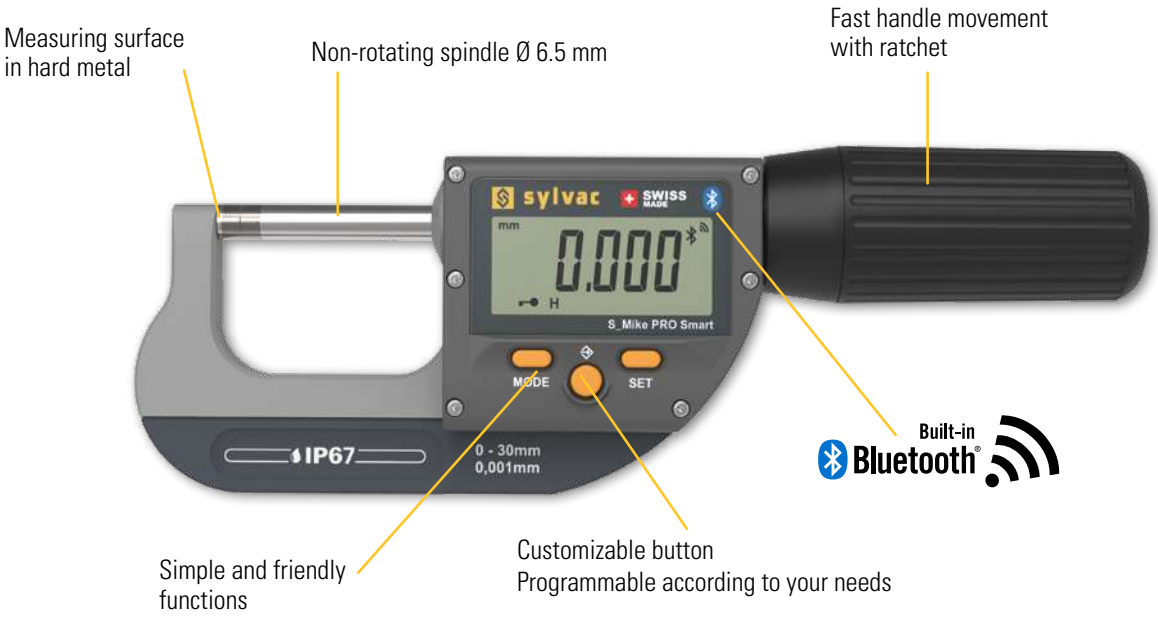
[1] according to DIN 863 / ISO 3611
[2] ± 1 digit
[3] see cables chapter

Professional micrometer S_Mike PRO Smart

DESCRIPTION CYLINDRICAL Ø6.5 SMART

- Ultra-fast non-rotating spindle micrometer with integrated Bluetooth® system
- Linear spindle feed 10 mm per revolution
- Measuring range greater than traditional micrometers
- Tungsten carbide measuring anvils Ø 6.5 mm
- Display of 0.001 mm and 0.001 / 0.0001 mm resolution on model 803-0306
- Ratchet system cancels operator influence and guarantees excellent repeatability
- Switchable measuring force 5 or 10 N for the 0-30 mm model
- Measuring range up to 102 mm (161 mm on request)
- Protection class IP67

D



DIN 863

Built-in Bluetooth

SIS Smart Inductive System

WATER RESISTANT

IP67

SWISS MADE

Cylindrical Ø6.5mm

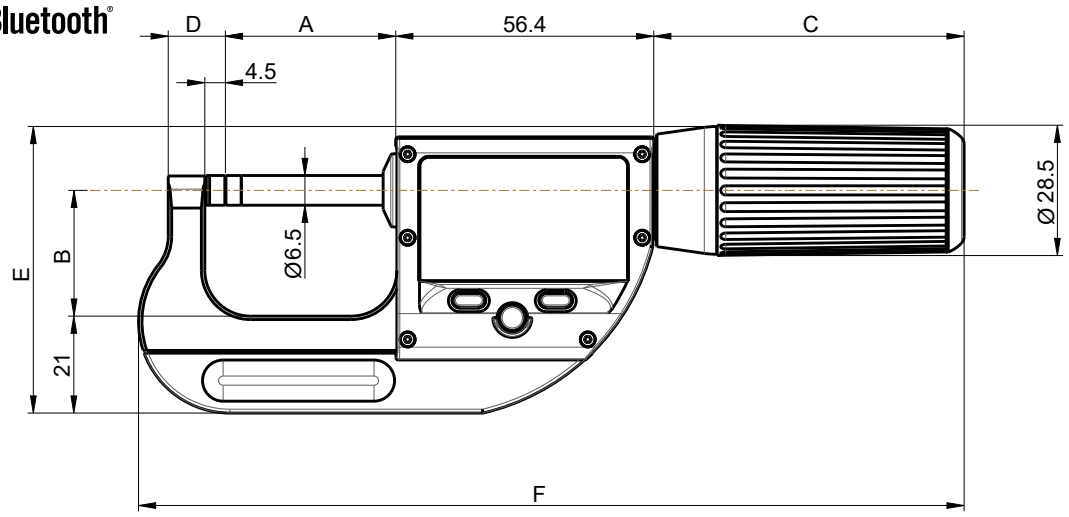
Micron resolution (depends on the model)

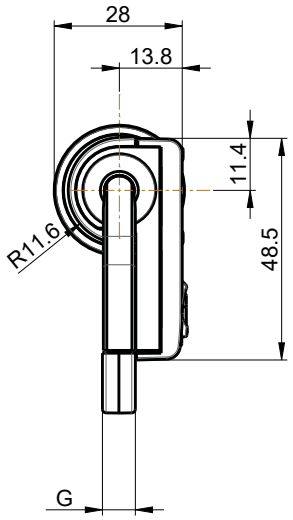
* SIS description on page 5

Professional micrometer S_Mike PRO Smart

DIMENSIONAL DRAWING CYLINDRICAL Ø6.5 SMART

Built-in Bluetooth®





D

TECHNICAL SPECIFICATIONS

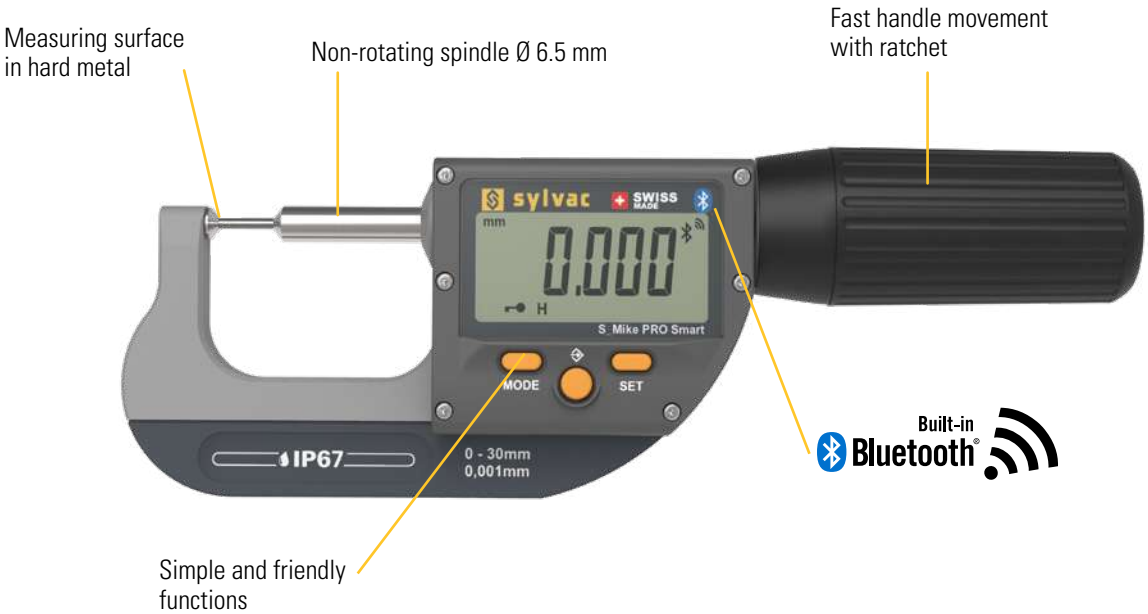
		803-0306	903-0606	903-1006
Measuring range	mm	0-30	30-66	66-102
Max. Error MPE_J [1]	µm	2.5	4	5
Repeatability [2]	µm	0.8	1	1
Resolution	mm	0.001 / 0.0001	0.001	0.001
Anvils types		Ø6.5[3]		
A	mm	37.3	73.3	109.3
B	mm	27.5	43	60
C	mm	68	74	74
D	mm	12.5	13.5	14.5
E	mm	63	86	106
F	mm	181	230	269
G	mm	7.2	9	9
Output data		Bluetooth® wireless technology		
Prot. rating accor. to IEC 60529		IP67 even connected		
Setting by PC		●		
Adjustable measuring force		5N / 10N	10N	
Non-rotating spindle		●		
Fast movement		●		
Preset function		●		
Smart Inductive Sensor		●		

[1] according to DIN 863 / ISO 3611
[2] ± 1 digit

Professional micrometer S_Mike PRO

DESCRIPTION CYLINDRICAL Ø2

- High-speed micrometer with non-rotating spindle with integrated Bluetooth® system
- Linear spindle feed 10 mm per revolution
- Tungsten carbide measuring anvils Ø 2 x 5 mm
- Possibility to obtain this micrometer with different diameter keys (more than 2 mm) on request.
- Display of 0.001 mm and 0.001 / 0.0001 mm resolution on model 803-0307
- Ratchet system cancels operator influence and guarantees excellent repeatability
- Switchable measuring force 5 or 10 N for the 0-25 mm model
- Measuring range up to 95 mm
- Protection class IP67



DIN 863

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

SWISS MADE

Cylindrical Ø2mm

Micron resolution (depends on the model)

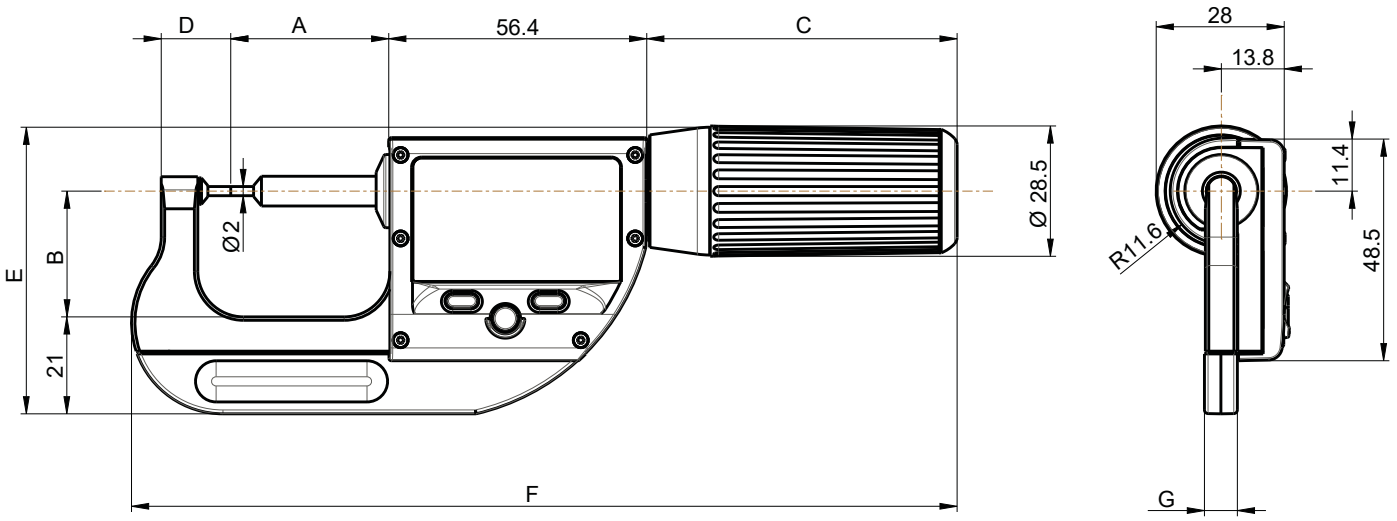
* SIS description on page 5

Professional micrometer

S_Mike PRO

DIMENSIONAL DRAWING

CYLINDRICAL Ø2



D

TECHNICAL SPECIFICATIONS

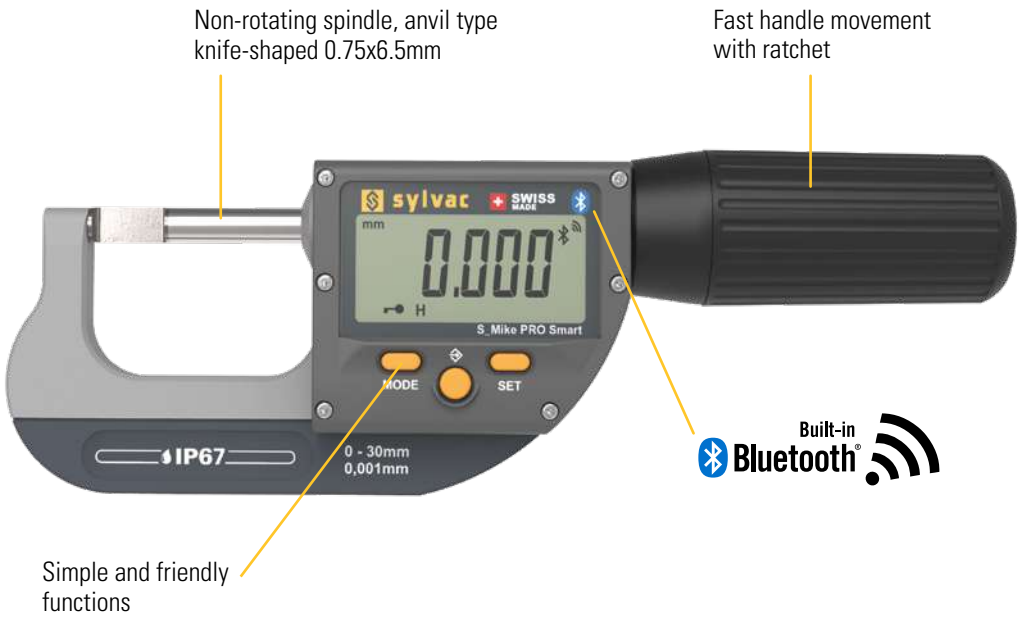
		803-0301	803-0307	903-0601	903-0611	903-1001	903-1011
Measuring range	mm	0-25	0-25	25-60	25-60	60-95	60-95
Max. Error MPE_J [1]	µm	3	2.5	4	4	5	5
Repeatability [2]	µm	1	0.8	1	1	1	1
Resolution	mm	0.001	0.001 / 0.0001	0.001			
Anvils types		Ø2					
A	mm	37.3	37.3	70.6	70.6	106.6	106.6
B	mm	27.5	27.5	43	43	60	60
C	mm	68	68	74	74	74	74
D	mm	15.2	15.2	16.2	16.2	17.2	17.2
E	mm	63	63	86	86	106	106
F	mm	181	181	230	230	269	269
G	mm	7.2	7.2	9	9	9	9
Output data		USB / RS 232 [3]	Bluetooth®	USB / RS 232 [3]	Bluetooth®	USB / RS 232 [3]	Bluetooth®
Prot. rating accor. to IEC 60529		IP67 even connected					
Setting by PC		●					
Adjustable measuring force		5N / 10N		10N			
Non-rotating spindle		●					
Fast movement		●					
Preset function		●					
Smart Inductive Sensor		●					

[1] according to DIN 863 / ISO 3611
[2] ± 1 digit
[3] see cables chapter

Professional micrometer S_Mike PRO

DESCRIPTION KNIFE-SHAPED

- High-speed micrometer with non-rotating spindle with integrated Bluetooth® system
- Linear spindle feed 10 mm per revolution
- Tungsten carbide measuring anvils, knife type, thickness 0.75 x 6.5 mm
- Possibility to obtain this micrometer with anvils of different thickness (minimum 0.4 mm) on request.
- Display resolution 0.001 mm
- Ratchet system cancels operator influence and guarantees excellent repeatability
- Switchable measuring force 5 or 10 N for the 0-25 mm model
- Measuring range up to 95 mm
- Protection class IP67



DIN 863

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

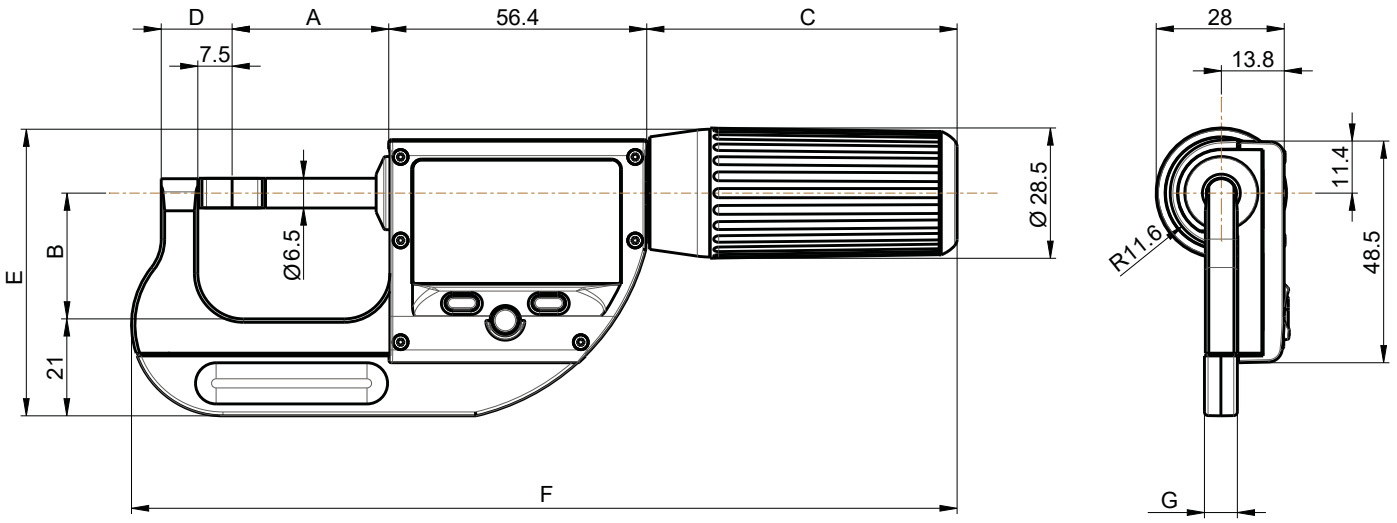
SWISS MADE

Knife-shaped

* SIS description on page 5

Professional micrometer S_Mike PRO

DIMENSIONAL DRAWING KNIFE-SHAPED



D

TECHNICAL SPECIFICATIONS

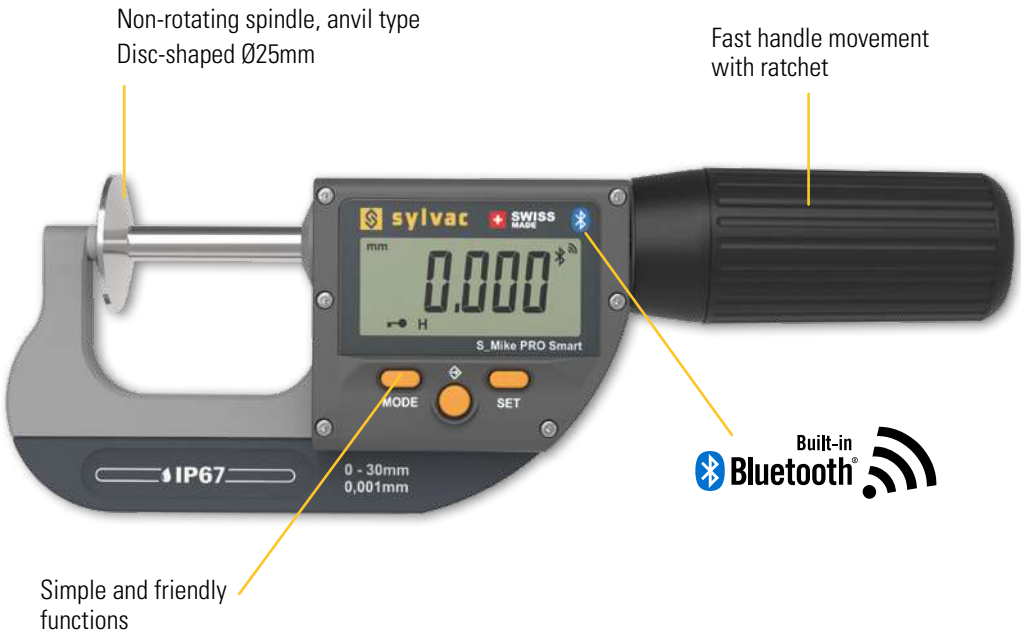
		803-0308	903-0612	903-1012	903-1312	903-1612
Measuring range	mm	0-25	25-60	60-95	95-130	120-155
Max. Error MPE_J [1]	µm	3	4	5	6	7
Repeatability [2]	µm	1	1	1	2	2
Anvils types		0.75x6.5				
A	mm	34.3	70.3	106.3	140.3	165.3
B	mm	27.5	43	60	95	110
C	mm	68	74	74	74	74
D	mm	15.5	16.5	17.5	22.5	22.5
E	mm	63	86	106	151	169
F	mm	181	230	269	306	339
G	mm	7.2	9	9	9	9
Output data		Bluetooth				
Prot. rating accor. to IEC 60529		IP67 even connected				
Setting by PC		●				
Adjustable measuring force		5N / 10N	10N			
Non-rotating spindle		●				
Fast movement		●				
Preset function		●				
Smart Inductive Sensor		●				

[1] according to DIN 863 / ISO 3611
[2] ± 1 digit

Professional micrometer S_Mike PRO

DESCRIPTION DISC-SHAPED

- High-speed micrometer with non-rotating spindle with integrated Bluetooth® system
- Linear spindle feed 10 mm per revolution
- Tungsten carbide measuring discs Ø 25 mm
- For technical reasons, this micrometer cannot be delivered with different discs.
- Display resolution 0.001 mm
- Ratchet system cancels operator influence and guarantees excellent repeatability
- Switchable measuring force 5N
- Measuring range limited to 102 mm
- Protection class IP67



DIN 863

SIS Smart Inductive System

WATER RESISTANT

IP67

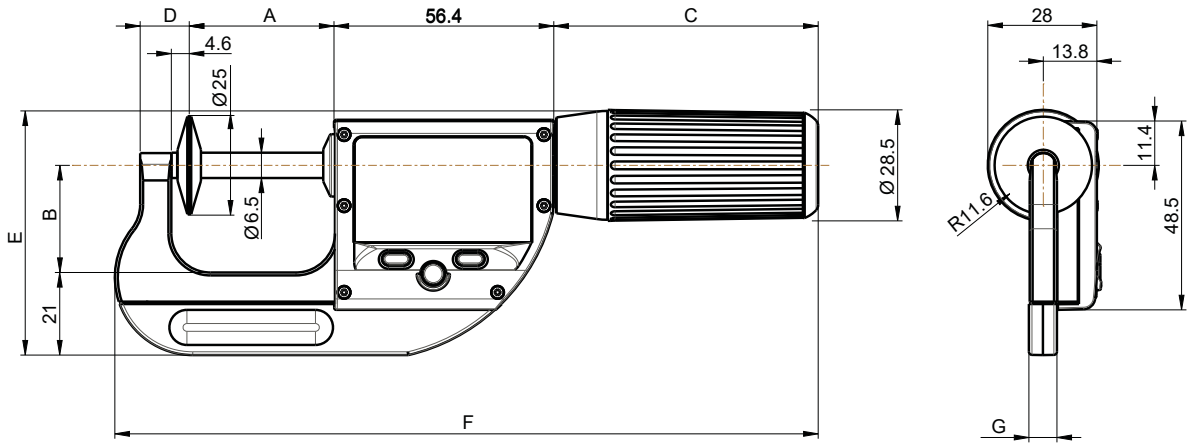
SWISS MADE

Disc-shaped

* SIS description on page 5

Professional micrometer S_Mike PRO

DIMENSIONAL DRAWING DISC-SHAPED



TECHNICAL SPECIFICATIONS

		803-0313	903-0613	903-1013
Measuring range	mm	0-30	30-66	66-102
Max. Error MPE_J [1]	µm	4 (full-touch-contact) / 10 (partial contact)	5 (full-touch-contact) / 11 (partial contact)	6 (full-touch-contact) / 12 (partial contact)
Repeatability [2]	µm	1		
Flatness	µm	2		
Parallelism	µm	5 (full-touch-contact) / 10 (partial contact)	6 (full-touch-contact) / 12 (partial contact)	6 (full-touch-contact) / 12 (partial contact)
Gear unit		Measurable module ≥ 0.5		
Anvils types		Ø25		
Output data		Bluetooth® wireless technology		
Prot. rating accor. to IEC 60529		IP67 even connected		
A		37.2	73.2	109.2
B		27.5	43	60
C		68	74	74
D		12.6	13.6	14.6
E		63	86	106
F		181	230	269
G		7.2	9	9
Setting by PC		●		
Measuring force		5N		
Non-rotating spindle		●		
Fast movement		●		
Preset function		●		
Smart Inductive Sensor		●		

[1] according to DIN 863 / ISO 3611 / [2] ± 1 digit

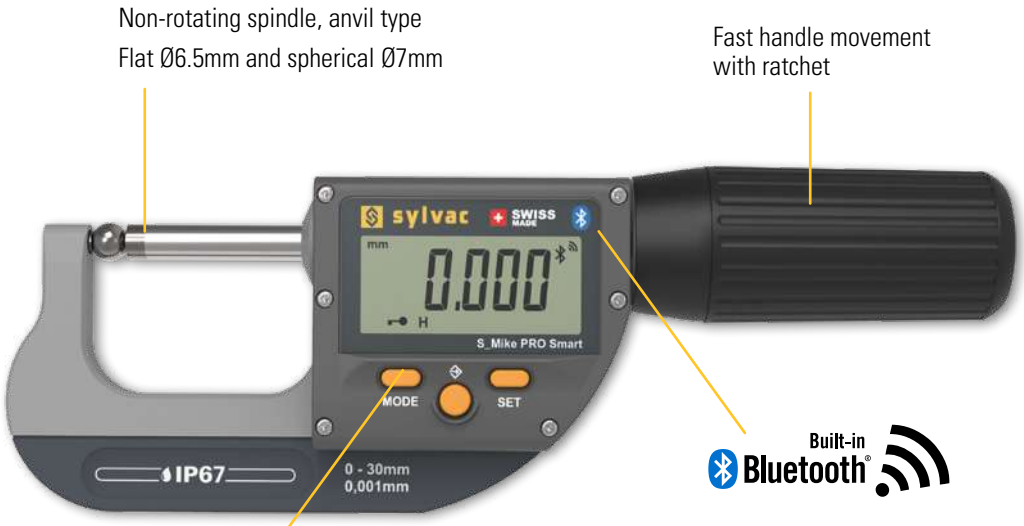
D

Professional micrometer S_Mike PRO

DESCRIPTION FLAT Ø6.5 / SPHERICAL Ø7

- High-speed micrometer with non-rotating spindle with integrated Bluetooth® system
- Linear spindle feed 10 mm per revolution
- Tungsten-carbide measuring anvils with a fixed Ø 7 mm ball probe on the fixed side and a flat Ø 6.5 mm probe on the movable side.
- For technical reasons, this micrometer cannot be delivered with different anvils.
- Display resolution 0.001 mm
- Ratchet system cancels operator influence and guarantees excellent repeatability
- Switchable measuring force 5 or 10 N
- Measuring range limited to 30 mm
- Protection class IP67

D



DIN 863

PROXIMITY

SIS Smart Inductive System

WATER RESISTANT

IP67

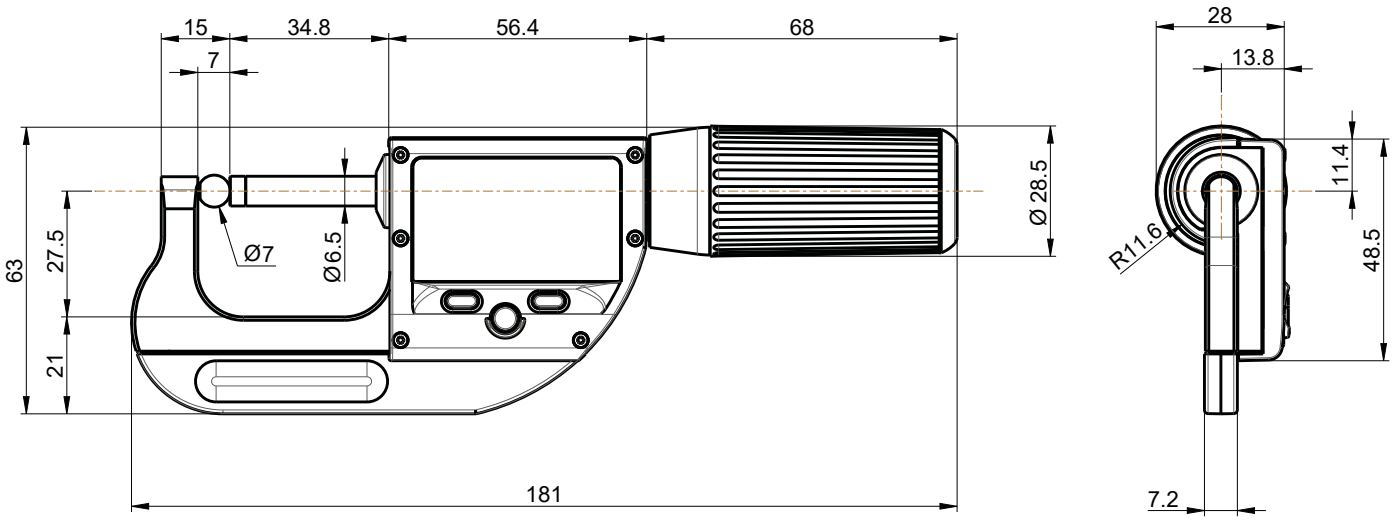
SWISS MADE

Flat Ø6.5mm / Spherical Ø7mm

* SIS description on page 5

Professional micrometer S_Mike PRO

DIMENSIONAL DRAWING FLAT Ø6.5 / SPHERICAL Ø7



D

TECHNICAL SPECIFICATIONS

		803-0314
Measuring range	mm	0-30
Max. Error MPE_J [1]	µm	3
Repeatability [2]	µm	1
Parallelism	µm	1
Anvils types		Ø6.5 flat and Ø7 spherical
Output data		Bluetooth® wireless technology
Prot. rating accor. to IEC 60529		IP67 even connected
Setting by PC		●
Adjustable measuring force		5N / 10N
Non-rotating spindle		●
Fast movement		●
Preset function		●
Smart Inductive Sensor		●

[1] according to DIN 863 / ISO 3611
[2] ± 1 digit

Professional micrometer

S_Mike PRO

DESCRIPTION

SPHERICAL Ø7

- High-speed micrometer with non-rotating spindle with integrated Bluetooth® system
- Linear spindle feed 10 mm per revolution
- Tungsten-carbide measuring anvils with fixed side a complete sphere Ø 7 mm and movable side a spherical probe with a radius of 3.5 mm
- For technical reasons, this micrometer cannot be delivered with different anvils.
- Display resolution 0.001 mm
- Ratchet system cancels operator influence and guarantees excellent repeatability
- Switchable measuring force 5 or 10 N
- Measuring range limited to 30 mm
- Protection class IP67

D

DIN 863

PROXIMITY

SIS Smart Inductive System

WATER RESISTANT

IP67

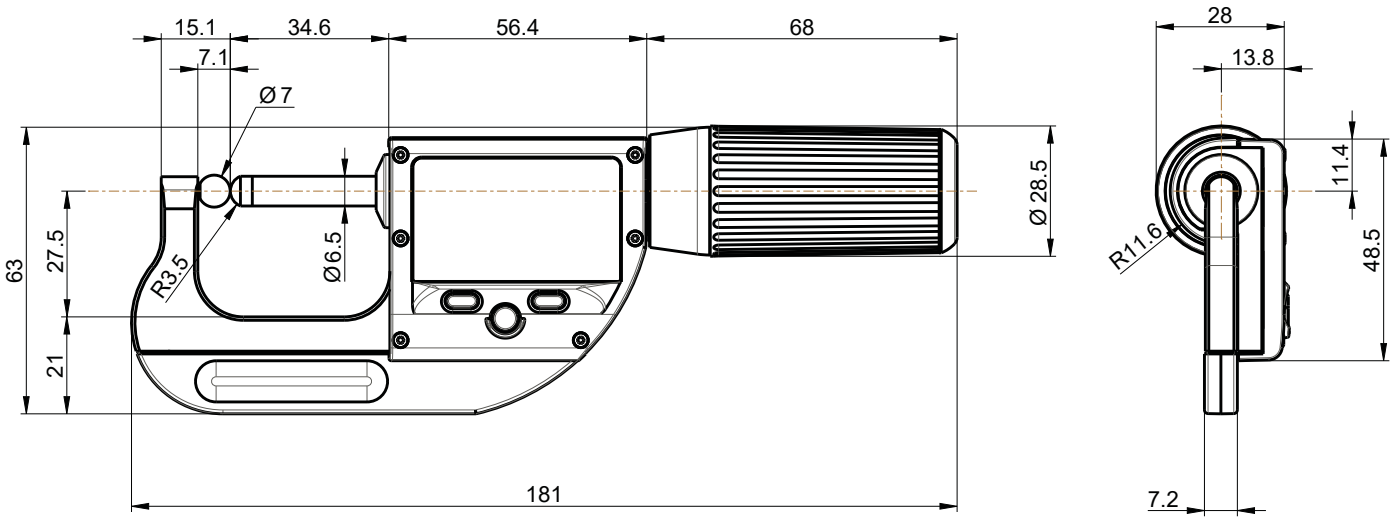
SWISS MADE

Spherical Ø7mm

* SIS description on page 5

Professional micrometer S_Mike PRO

DIMENSIONAL DRAWING SPHERICAL Ø7



D

TECHNICAL SPECIFICATIONS

		803-0315
Measuring range	mm	0-30
Max. Error MPE_J [1]	µm	4
Repeatability [2]	µm	1
Anvils types		Ø7 (2 spherical)
Output data		Bluetooth® wireless technology
Prot. rating accor. to IEC 60529		IP67 even connected
Setting by PC		●
Adjustable measuring force		5N / 10N
Non-rotating spindle		●
Fast movement		●
Preset function		●
Smart Inductive Sensor		●

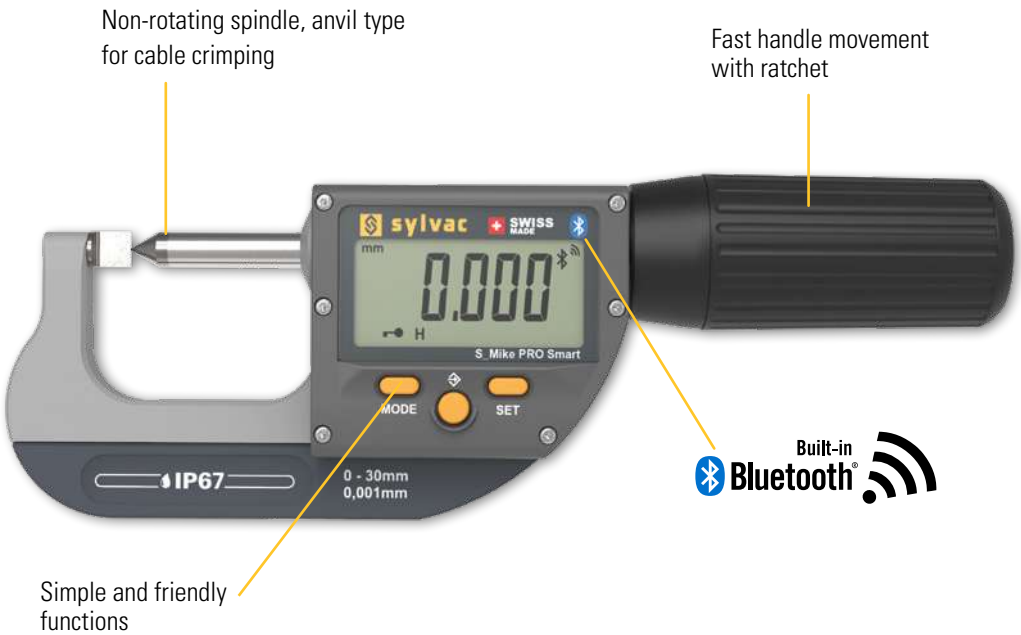
[1] according to DIN 863 / ISO 3611
[2] ± 1 digit
[3] see cables chapter

Professional micrometer S_Mike PRO

DESCRIPTION KNIFE-SHAPED / CONE

- High-speed micrometer with non-rotating spindle and integrated Bluetooth® system
- Linear spindle feed 10 mm per revolution
- Special instrument for checking the crimping of electrical cables
- Tungsten-carbide measuring anvils with fixed anvil side, one knife anvil 0.5 x 6.6 mm thick and movable anvil side, one conical anvil 5.2 mm wide.
- For technical reasons, this micrometer cannot be delivered with different anvils.
- Display resolution 0.001 mm
- Ratchet system cancels operator influence and guarantees excellent repeatability
- Switchable measuring force 5 or 10 N
- Measuring range limited to 25 mm
- Protection class IP67

D



DIN 863

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

SWISS MADE

Knife-shaped 0.5mm - cone 60°/Ø0.5mm

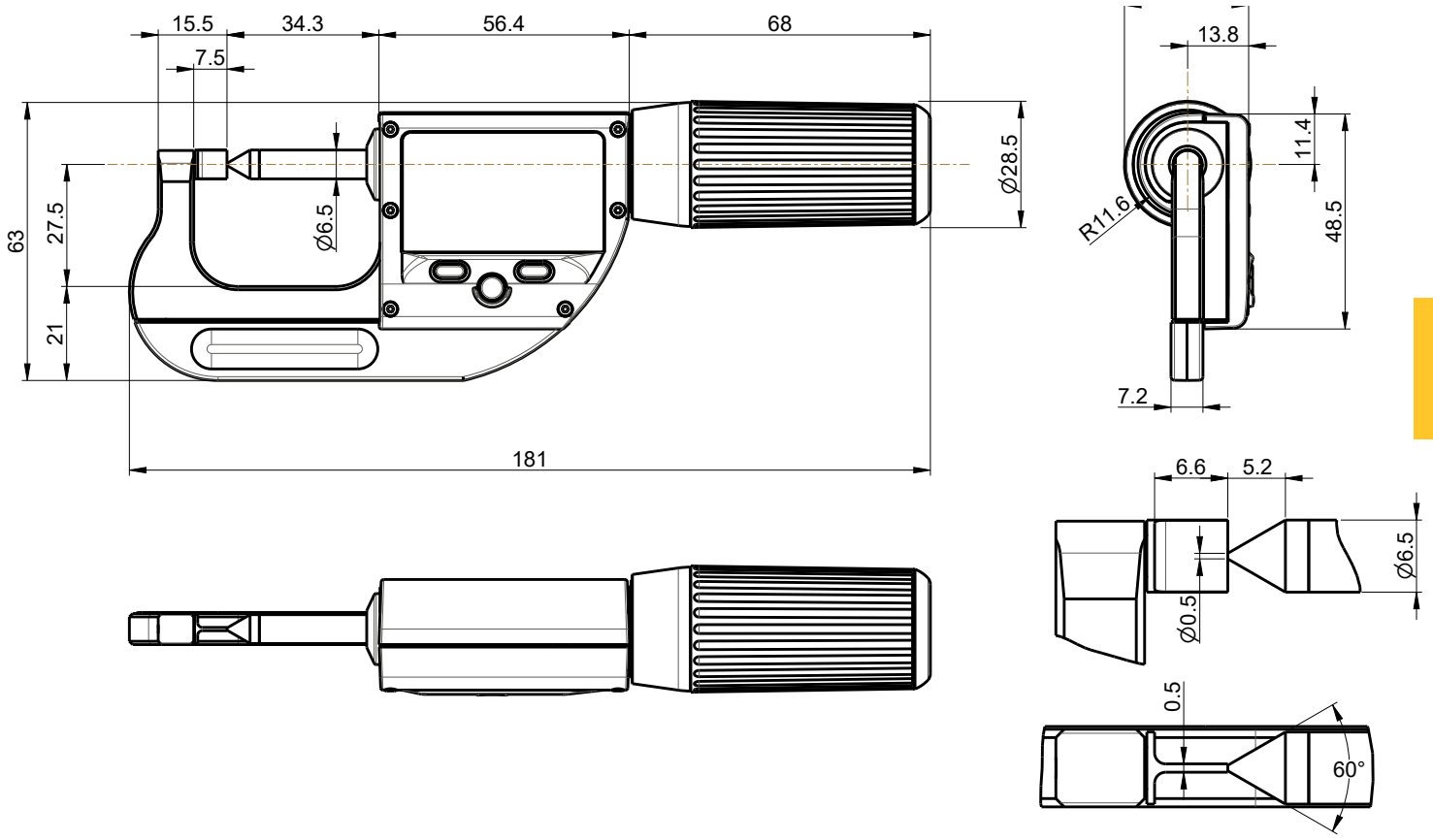
* SIS description on page 5

Professional micrometer S_Mike PRO

DIMENSIONAL DRAWING KNIFE-SHAPED / CONE

Built-in Bluetooth®

Cable crimping



TECHNICAL SPECIFICATIONS

		803-0309
Measuring range	mm	0-25
Max. Error MPEJ [1]	µm	3
Repeatability [2]	µm	1
Anvils types		Knife 0.5mm - cone 60°/Ø0.5mm
Output data		Bluetooth® wireless technology
Prot. rating accor. to IEC 60529		IP67 even connected
Setting by PC		●
Adjustable measuring force		5N / 10N
Non-rotating spindle		●
Fast movement		●
Preset function		●
Smart Inductive Sensor		●

[1] according to DIN 863 / ISO 3611
[2] ± 1 digit

Professional micrometer

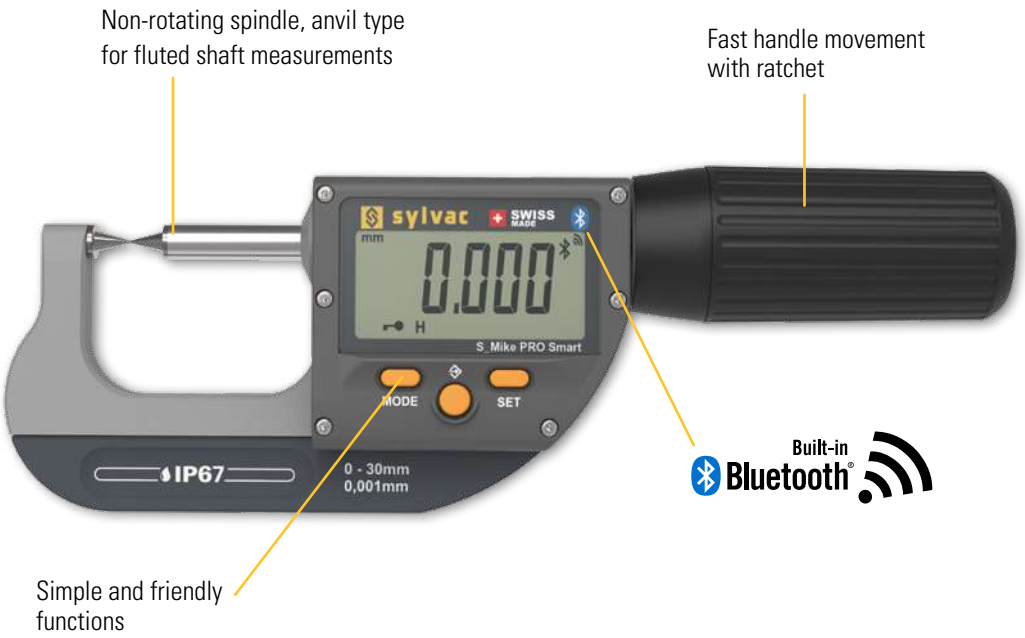
S_Mike PRO

DESCRIPTION

POINT / SPHERICAL

- High-speed micrometer with non-rotating spindle and integrated Bluetooth® system
- Linear spindle feed 10 mm per revolution
- Special instrument for checking splines
- 30° tapered hard metal measuring anvils with a small radius of 0.3 mm at the tip
- For technical reasons, this micrometer cannot be delivered with different anvils.
- Display resolution 0.001 mm
- Ratchet system cancels operator influence and guarantees excellent repeatability
- Switchable measuring force 5 or 10 N
- Measuring range limited to 25 mm
- Protection class IP67

D



DIN 863

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

SWISS MADE

Point 30° - Spherical R0.3mm

* SIS description on page 5

Professional micrometer

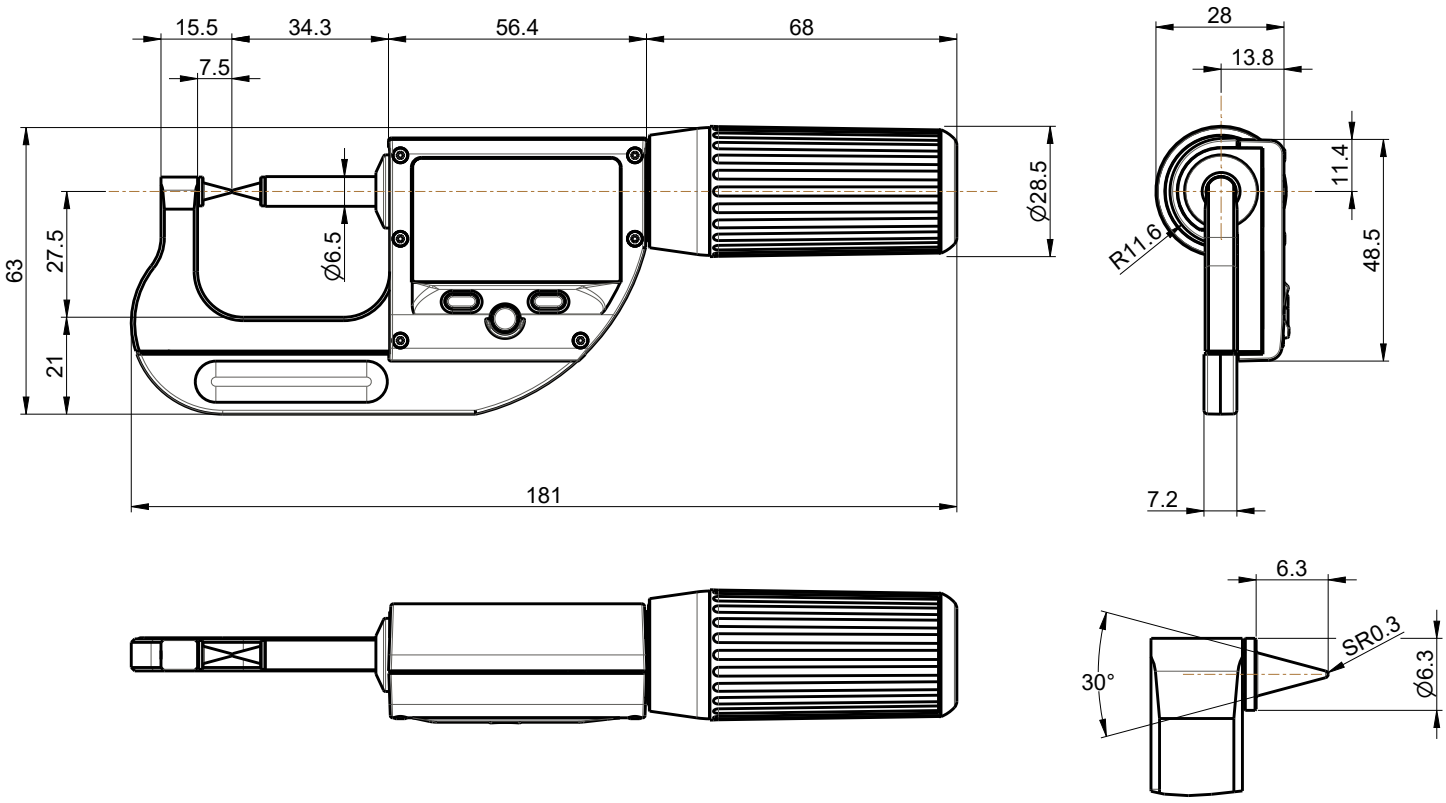
S_Mike PRO

DIMENSIONAL DRAWING

POINT / SPHERICAL

Built-in Bluetooth®

Fluted Shaft



TECHNICAL SPECIFICATIONS

		803-0310
Measuring range	mm	0-25
Max. Error MPE_J [1]	µm	3
Repeatability [2]	µm	1
Anvils types		Point 30° - spherical R0.3mm
Output data		Bluetooth® wireless technology
Prot. rating accor. to IEC 60529		IP67 even connected
Setting by PC		●
Adjustable measuring force		5N / 10N
Non-rotating spindle		●
Fast movement		●
Preset function		●
Smart Inductive Sensor		●

[1] according to DIN 863 / ISO 3611
[2] ± 1 digit

Professional micrometer S_Mike PRO

MICROMETER SETS

903-1300

Built-in Bluetooth®

903-1306

D

	903-1300	903-1306
Measuring range mm	0-102	0-102
Plastic case	●	●
Aluminium case	-	-
Output data	USB / RS 232	Bluetooth®

STANDARD DELIVERY

- Instrument according to technical specifications
- Setting master 50 mm (for 903-060X)
- Setting master 75 mm (for 903-100X)
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate

MICROMETERS SETS

- 803-0300 / 903-0600 / 903-1000
- Setting master 50 mm
- Setting master 75 mm
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate

ACCESSORIES

903-0330	Stand
903-0620	Setting master 50 mm
903-1020	Setting master 75 mm
903-1620	Setting master125 mm

Professional micrometer S_Mike PRO

MODELS

Cylindrical Ø6.5mm

Disk Ø25mm

Ball-Ball Ø7mm

Flat Ø6.5mm-Ball Ø7mm

Knife 0.75x6.5mm

Cylindrical Ø2mm

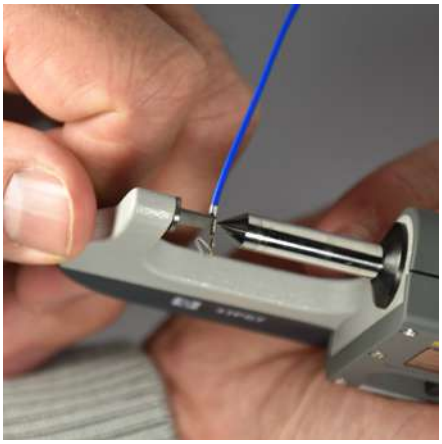
Cable crimping Knife 0.5mm - cone 30° / Ø0.5mm

Fluted Shaft - Point 30° - ball Ø0.3mm

APPLICATIONS

Part measurement with a S_Mike PRO Disk

Length measurement of a lathed part


Cable cramping measurement

Professional micrometer

S_Mike EVO

DESCRIPTION

CYLINDRICAL Ø6.5

- New rotating spindle micrometer with integrated Bluetooth® system
- Spindle feed rate 1 mm per revolution
- Tungsten carbide measuring anvils Ø 6.5 mm
- Large XXL display with 0.001 mm resolution
- Measuring force 7-10N
- Measuring range up to 100mm
- Protection class IP67

D

DIN 863

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP67

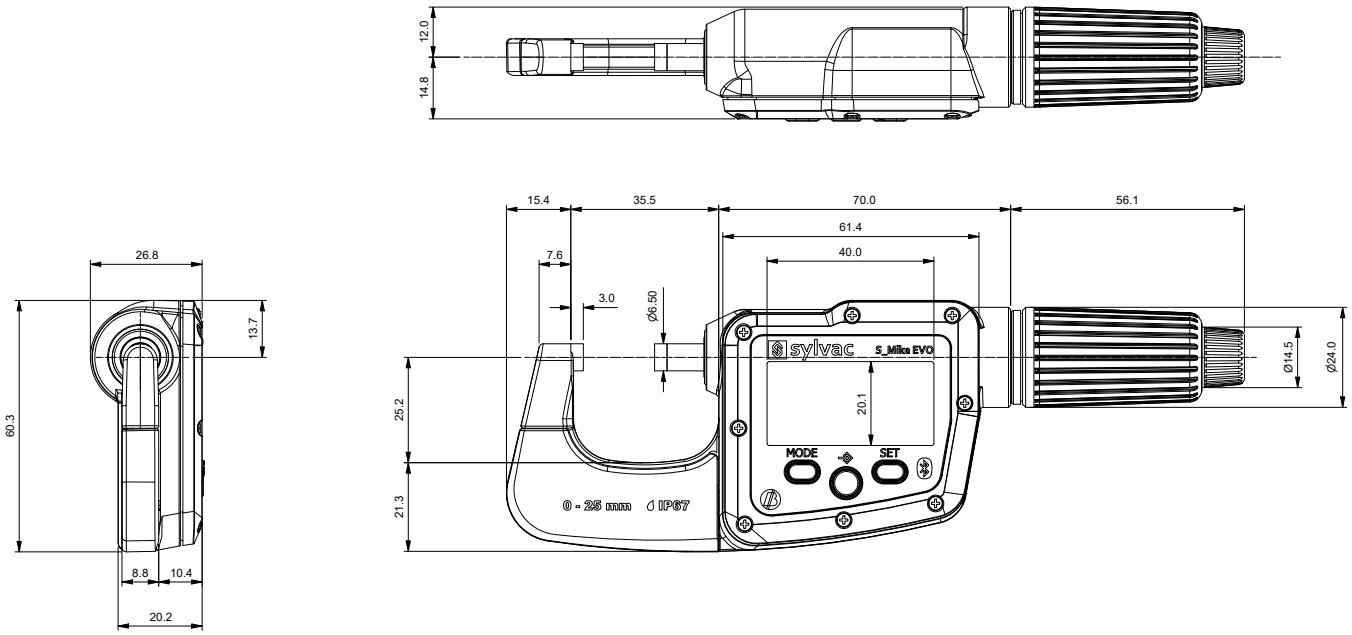
* SIS description on page 5

Professional micrometer

S_Mike EVO

DIMENSIONAL DRAWING

CYLINDRICAL Ø6.5



D

TECHNICAL SPECIFICATIONS

		803-6025	803-6050	803-6075	803-6100
Measuring range	mm	0-25	25-50	50-75	75-100
Max. Error MPE_J [1]	µm	2	2	3	3
Repeatability [2]	µm	1	1	1	2
Anvils types		Ø6.5			
L	mm	35.5	61	86	112
B	mm	7.5	11	12	13
C	mm	25	37	50	63
D	mm	3	3	3	3
Output data		Bluetooth® wireless technology			
Prot. rating accor. to IEC 60529		IP67 even connected			
Setting by PC		●			
Measuring force		7-10N			
Rotating spindle		●			
Advance		1mm/rotation			
Preset function		●			
Smart Inductive Sensor		●			

[1] according to DIN 863 / ISO 3611
[2] ± 1 digit
[3] see cables chapter

Micrometer head S_Head Smart

DESCRIPTION

- Micrometer head with integrated Bluetooth® system
- To be mounted on big goose-neck
- 2mm pitch
- Spindle diameter Ø8mm, joint diameter Ø12mm
- Protection class IP65

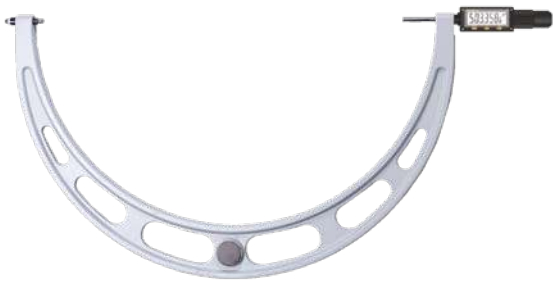
DIN 863

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

IP65

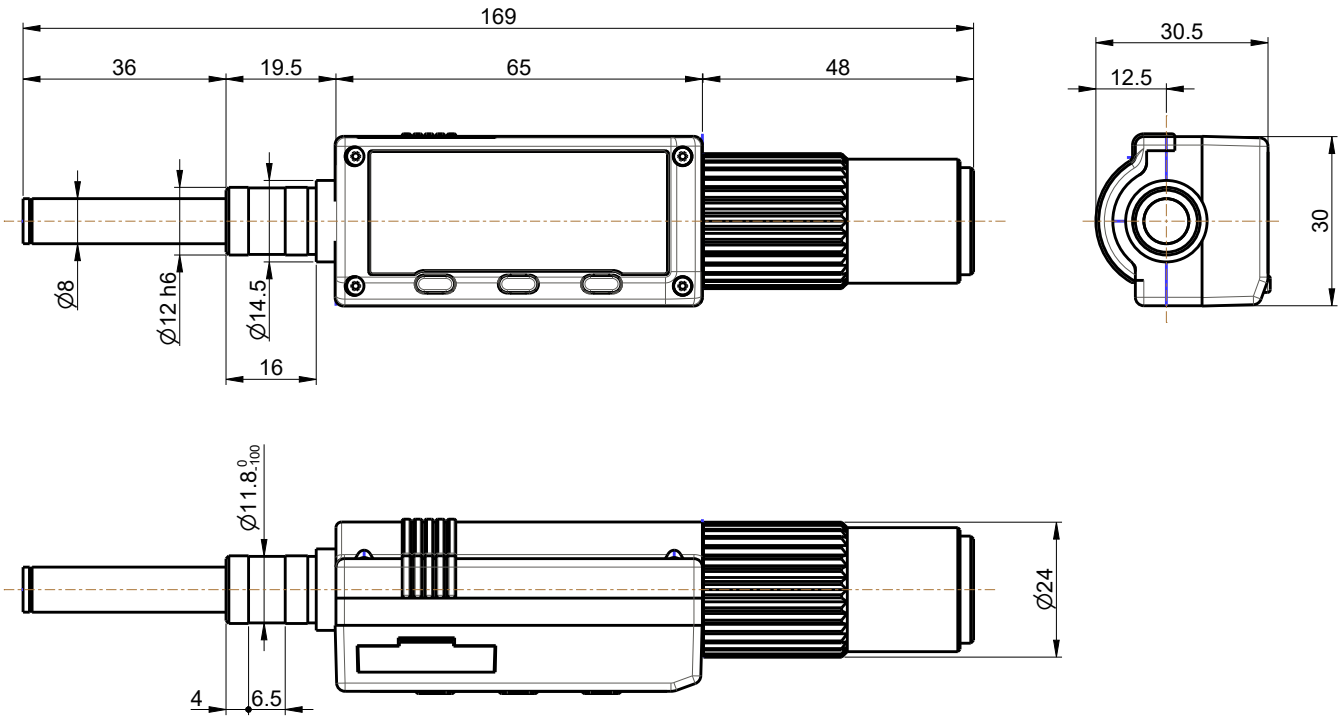


Micrometer head mounted on a goose-neck

* SIS description on page 5

Micrometer head S_Head Smart

DIMENSIONAL DRAWING



D

TECHNICAL SPECIFICATIONS

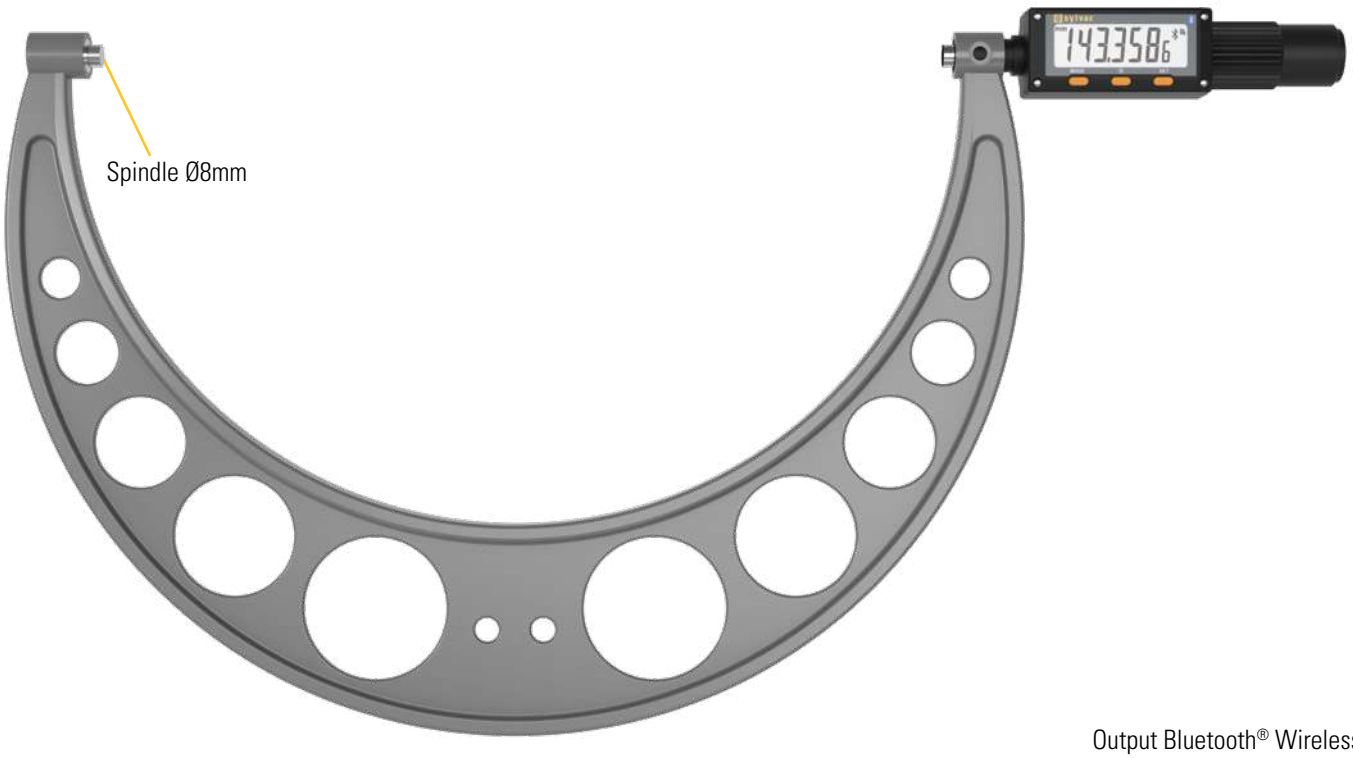
		803-6500
Measuring range	mm	30
Max. Error MPE_J [1]	µm	3
Repeatability MPE_R [2]	µm	≤ 1
Output data		Bluetooth® wireless technology
Prot. rating accor. to IEC 60529		IP65
Setting by PC		●
Measuring force		5-10N
Rotating spindle		●
Advance		2mm/rotation
Preset function		●
Smart Inductive Sensor		●

[1] according to DIN 863 / ISO 3611
[2] ± 1 digit

Large micrometer S_Mike LARGE Smart

DESCRIPTION

- Large micrometer with integrated Bluetooth® system
- Measuring ranges from 150 to 1000 mm
- 2mm pitch
- Spindle diameter Ø8mm
- Protection class IP65



DIN 863

Built-in Bluetooth®

SIS Smart Inductive System

WATER RESISTANT

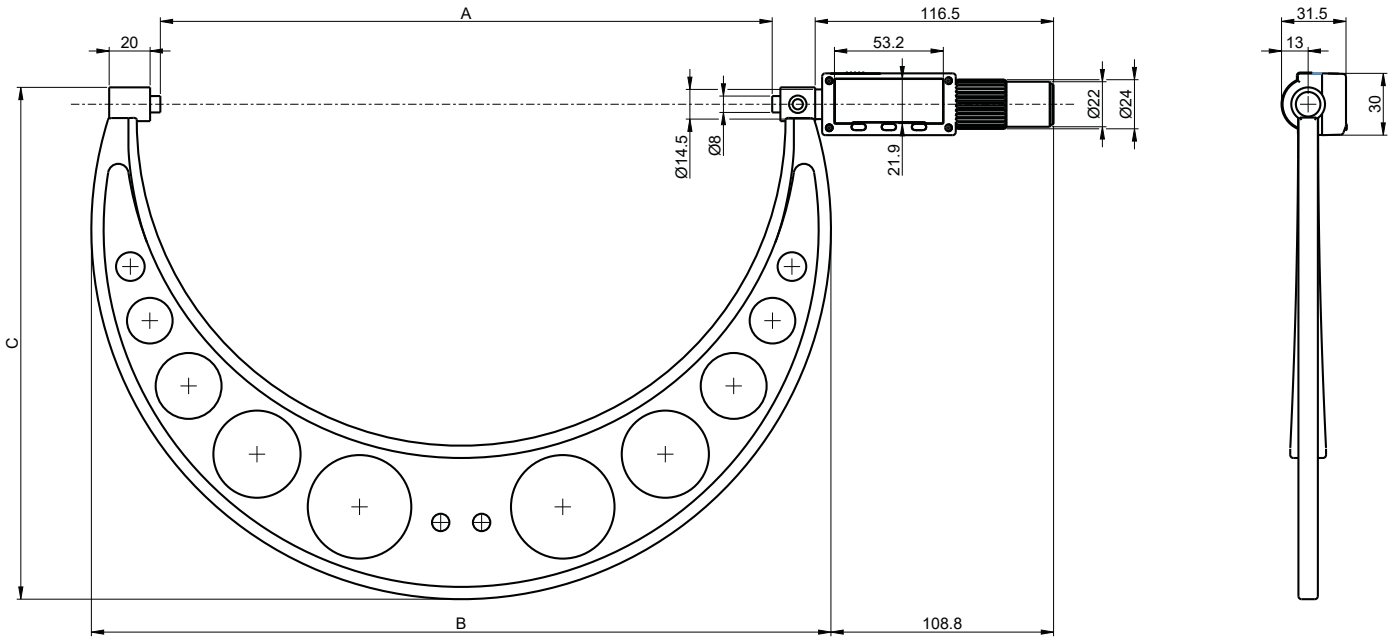
IP65

* SIS description on page 5

Large micrometer

S_Mike LARGE Smart

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		803-2015	803-2030	803-2040	803-2050	803-2060	803-2070	803-2080	803-2090
Measuring range	mm	150-300	300-400	400-500	500-600	600-700	700-800	800-900	900-1000
Max. Error MPE_J [1]	µm	± 4	± 6	± 7	± 8	± 10	± 11	± 12	± 14
Max. Error Spindle advance	µm	3							
Parallelism	µm	3	5	6	7	8	9	10	11
Repeatability MPE_R [2]	µm	≤ 1							
A	mm	150-300	300-400	400-500	500-600	600-700	700-800	800-900	900-1000
B	mm	361.5	505	610	716	822	935	1044	1152
C	mm	250	373.5	443.5	513.5	583.5	668.5	743.5	818.5
Output data		Bluetooth® wireless technology							
Prot. rating accor. to IEC 60529		IP65							
Setting by PC		●							
Measuring force		10-12N							
Rotating spindle		●							
Advance		2mm/rotation							
Preset function		●							
Smart Inductive Sensor		●							

[1] according to DIN 863 / ISO 3611
[2] ± 1 digit

Kits for apprentices

WITH VARIOUS SYLVAC INSTRUMENTS

- Sets consisting of :

	800-1020	800-1021	800-1026	800-1120	800-1126
Caliper with Bluetooth® Wireless technology S_Cal EVO Smart 150mm 810-1506			●		●
Basic caliper S_Cal EVO 150mm 810-1502	●	●		●	
Micrometer S_Mike PRO 0-30mm, Ø6.5 803-0300	●-			●	
Micrometer S_Mike PRO 0-25mm, Ø2 803-0301		●			
Micrometer with Bluetooth® Wireless Technology S_Mike PRO Smart 0-30mm, Ø6.5 803-0306			●		●
Base for depth measurement 910-2205	●	●	●		
Digital indicator S_Dial WORK Advanced 12.5mm 805-5201					
Digital indicator with Bluetooth® Wireless technology S_Dial WORK Analog Nano Smart 12.5mm 805-6307					
150mm ruler 060-000-01				●	●
Try square 060-000-02				●	●
180mm scriber 060-000-05				●	●
Thread pitch gauge 060-000-03				●	●
Radius gauge 060-000-04				●	●
Storage box	●	●	●	●	●

Kits available for apprentices and students only

Thread pitch gauge

Try square

Base for depth measurement

Scriber

150mm ruler

Radius gauge

SMALL & MID-SIZE INSTRUMENTS

This chapter brings together various instruments, some of which may seem unusual at first glance, but which have provided a vital solution for clients for whom mistakes are forbidden. The star of this section is undoubtedly our set of digital thickness gages, which is a marvellous illustration of Sylvac's boundless ingenuity. You will also find other instruments such as an angle protractor, micrometric screws and depth gages, all of which can be connected either via Bluetooth® or cable.

GENERAL CHARACTERISTICS :

- **Powered by lithium battery type CR2032**
- **Absolute measuring system S.I.S**
- **Automatic sleep and wake-up**
- **mm/inch conversion on all models**
- **Working temperature +5° to +40°C**

Digital thickness gage

Feeler Gage Smart

DESCRIPTION

- World novelty, the first set of thickness gages with digital display of the total thickness of all feelers removed from the case.
- Integrated Bluetooth® system
- Developed for sensitive applications (aerospace, automotive, defence, etc.) where error is prohibited
- Available with steel feelers with thickness in mm or inches.
- Accuracy of feeler thickness according to DIN 2275: 2014-03 class TC1
- Sets in mm with 19 or 20 feelers, useful length 99 mm
- Set in inch with 14 feelers, usable length 3.9"
- Individual replacement feelers available on request
- Display resolution 0.01 mm and .001».
- IP65 protection

Built-in Bluetooth®

E

Built-in Bluetooth®

SWISS MADE

SIS Smart Inductive System

IP65

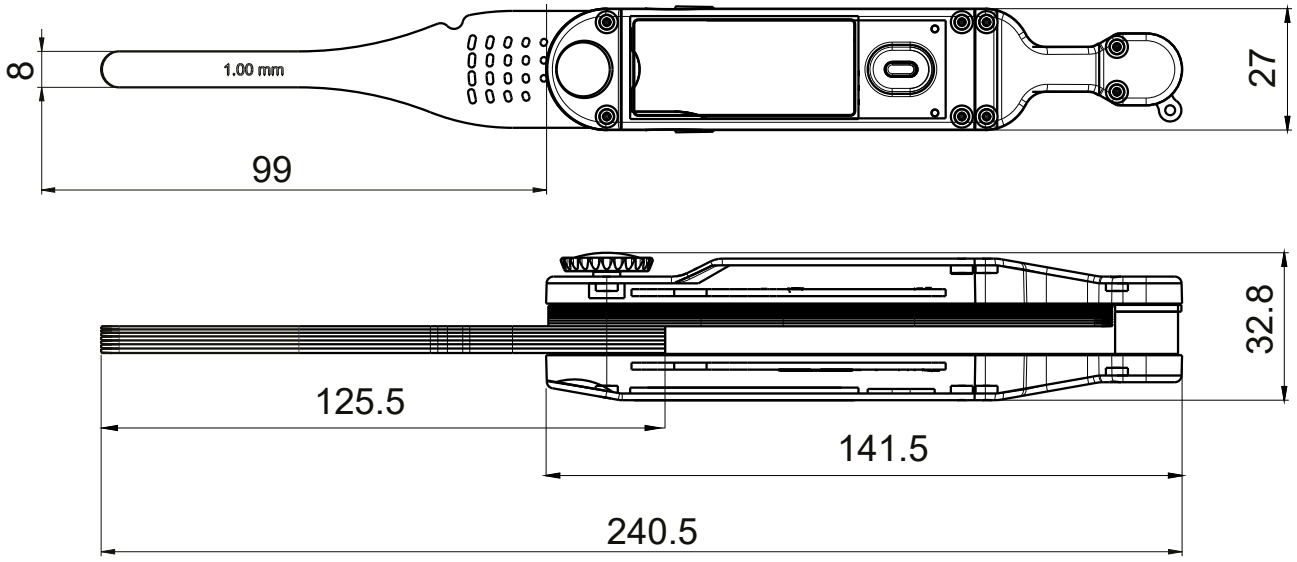
Transmissions of the value or one or several gages

Transmission of data into any software or application, without dongle. Can be used with Microsoft (W7, 8, 10, 11), Android or Apple.

Digital thickness gage

Feeler Gage Smart

DIMENSIONAL DRAWING



Model 921-0100
The thickness may differ slightly for the other models according to the number of gages.

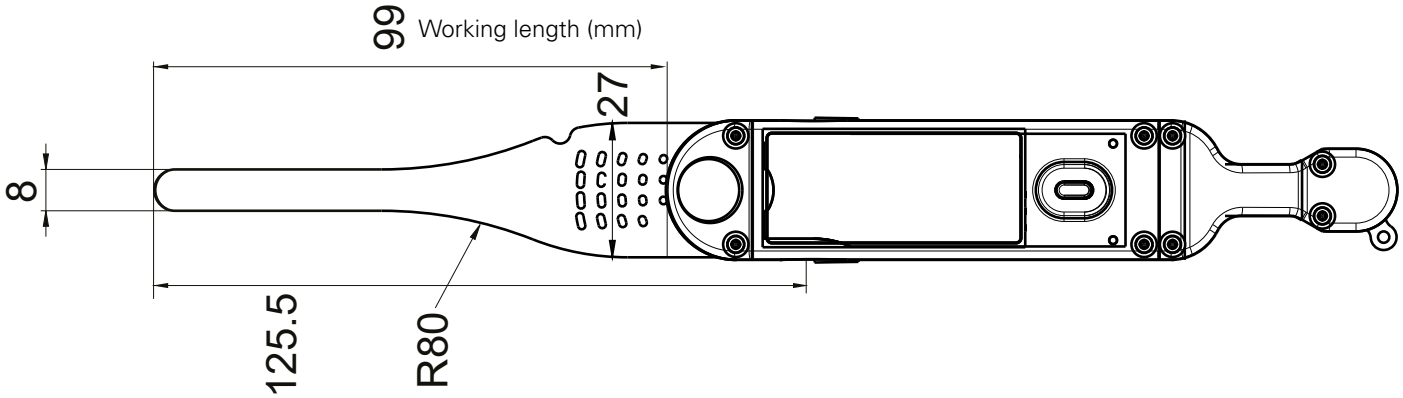
E

TECHNICAL SPECIFICATIONS

		921-0100	921-0110	921-0114
Type of version		mm	mm	inch
Measurement capacity	mm/in	0.05...1.00 mm	0.04...1.00 mm	0.0020...0.0310 in
Feelers thickness	mm/in	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00 mm	0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00 mm	0.0020, 0.0030, 0.0040, 0.0050, 0.0060, 0.0070, 0.0080, 0.0090, 0.0100, 0.0120, 0.0150, 0.0200, 0.0250, 0.0310 in
Total feelers thickness	mm/in	10.5 mm	6.64 mm	0.157 in
Usable length	mm	99		
Thickness Tolerance Class according to DIN 2275		TC1		
Protection rating according to IEC 60529		IP65		
Output data		Bluetooth® wireless technology		
Number of feelers		20	19	14
Weight	g	280	224	212
Functions		Unit (mm/inch)		

Digital thickness gage — Feeler Gage Smart

REPLACEMENT FEELERS



Model 921-0100
Metric Feeler Gage
0.05...1.00mm
20 blades

Reference	Thickness (mm)	Tolerance (mm)
921-1001	0.05	±0.004
921-1006	0.10	±0.005
921-1007	0.15	±0.006
921-1008	0.20	±0.006
921-1009	0.25	±0.007
921-1010	0.30	±0.007
921-1011	0.35	±0.008
921-1012	0.40	±0.009
921-1013	0.45	±0.009
921-1014	0.50	±0.010
921-1015	0.55	±0.011
921-1016	0.60	±0.011
921-1017	0.65	±0.012
921-1018	0.70	±0.012
921-1019	0.75	±0.013
921-1020	0.80	±0.014
921-1021	0.85	±0.014
921-1022	0.90	±0.015
921-1023	0.95	±0.016
921-1024	1.00	±0.017

Model 921-0110
Metric Feeler Gage
0.04...1.00mm
19 blades

Reference	Thickness (mm)	Tolerance (mm)
921-1000	0.04	±0.004
921-1001	0.05	±0.004
921-1002	0.06	±0.004
921-1003	0.07	±0.004
921-1004	0.08	±0.004
921-1005	0.09	±0.004
921-1006	0.10	±0.005
921-1007	0.15	±0.006
921-1008	0.20	±0.006
921-1009	0.25	±0.007
921-1010	0.30	±0.007
921-1011	0.35	±0.008
921-1012	0.40	±0.009
921-1014	0.50	±0.010
921-1016	0.60	±0.011
921-1018	0.70	±0.012
921-1020	0.80	±0.014
921-1022	0.90	±0.015
921-1024	1.00	±0.017

Model 921-0114
Imperial Feeler Gage
0.0020...0.0310in
14 blades

Reference	Thickness (in)	Tolerance (mm)
921-1025	0.0020	±0.004
921-1026	0.0030	±0.004
921-1027	0.0040	±0.004
921-1028	0.0050	±0.005
921-1029	0.0060	±0.005
921-1030	0.0070	±0.006
921-1031	0.0080	±0.006
921-1032	0.0090	±0.006
921-1033	0.0100	±0.006
921-1034	0.0120	±0.007
921-1035	0.0150	±0.008
921-1036	0.0200	±0.009
921-1037	0.0250	±0.011
921-1038	0.0301	±0.012

Material of the feelers : spring tempered stainless steel 1.4310 / alloy 301

Digital thickness gage

Feeler Gage Smart

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Lanyard

APPLICATIONS

Gap measurement

Gap measurement

Gap setting

Valve adjustment

Data transmission via HID

E

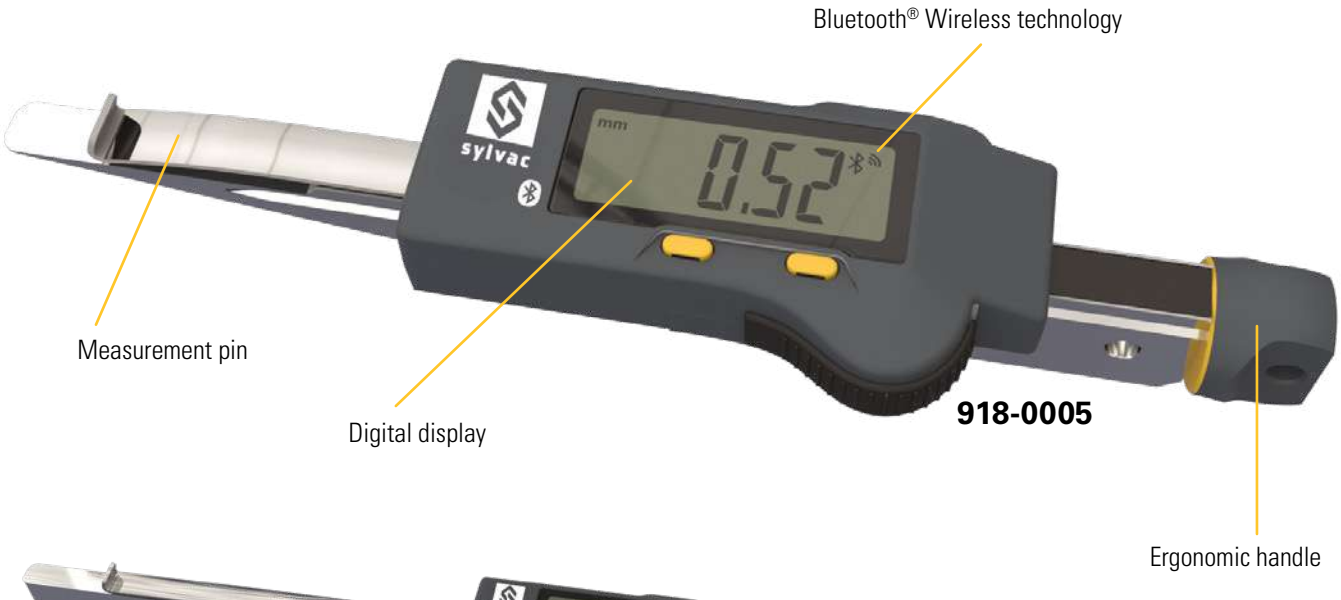
Gap taper gage

Taper Gage Smart

DESCRIPTION

- Professional taper gage for gap and thickness measurement, with integrated Bluetooth® Wireless Technology
- Measuring ranges 0.5 - 5.5mm, 0.5 - 17.5mm & 12.5 - 28.5mm
- Water, coolants and lubricants protected, IP67 protection
- Automatic wake-up and sleeping mode

Built-in Bluetooth®



918-0005

918-0025

918-0012

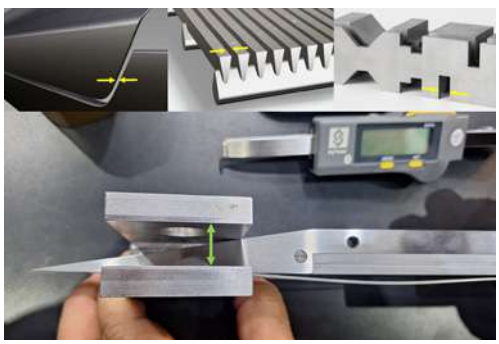
Built-in Bluetooth®

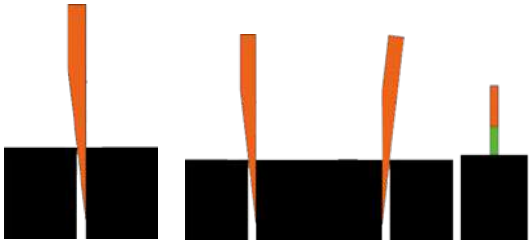
SWISS MADE

SIS Smart Inductive System

WATER RESISTANT

IP67



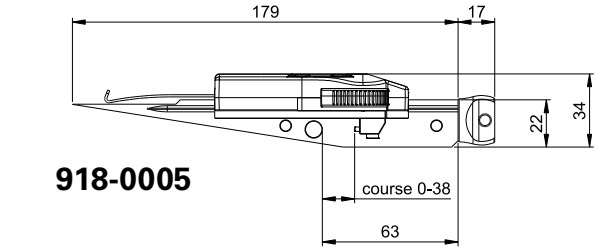


Measurement examples

Gap taper gage

Taper Gage Smart

DIMENSIONAL DRAWING



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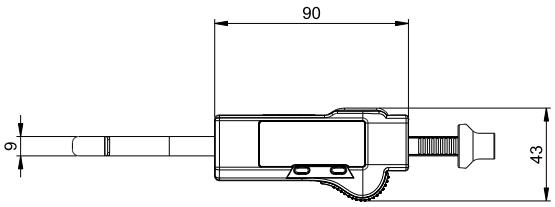
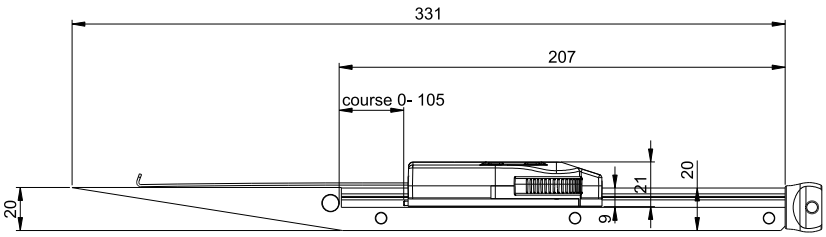
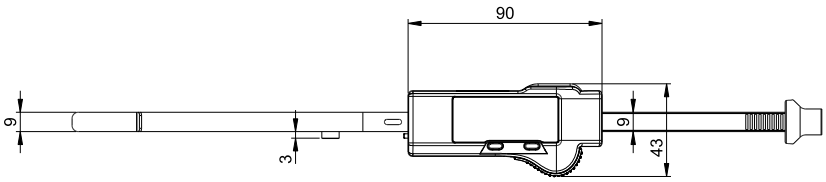
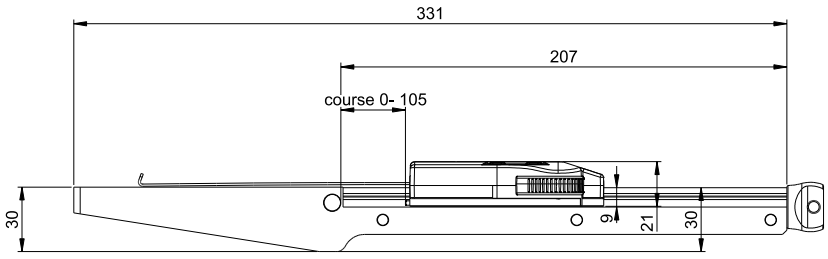


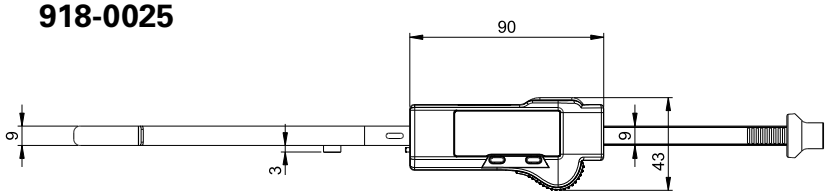


918-0012





918-0025



STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual

TECHNICAL SPECIFICATIONS

		918-0005	918-0012	918-0025
Measurement capacity	mm	0.5 - 5.5	0.5 - 17.5	12.5 - 28.5
Repeatability MPE_R	µm	10		
Max. error MPE	µm	30		
Resolution	mm	0.01		
Protection rating according to IEC 60529		IP67		
Output data		Bluetooth® wireless technology		
Weight	g		380	520
Functions		Preset		

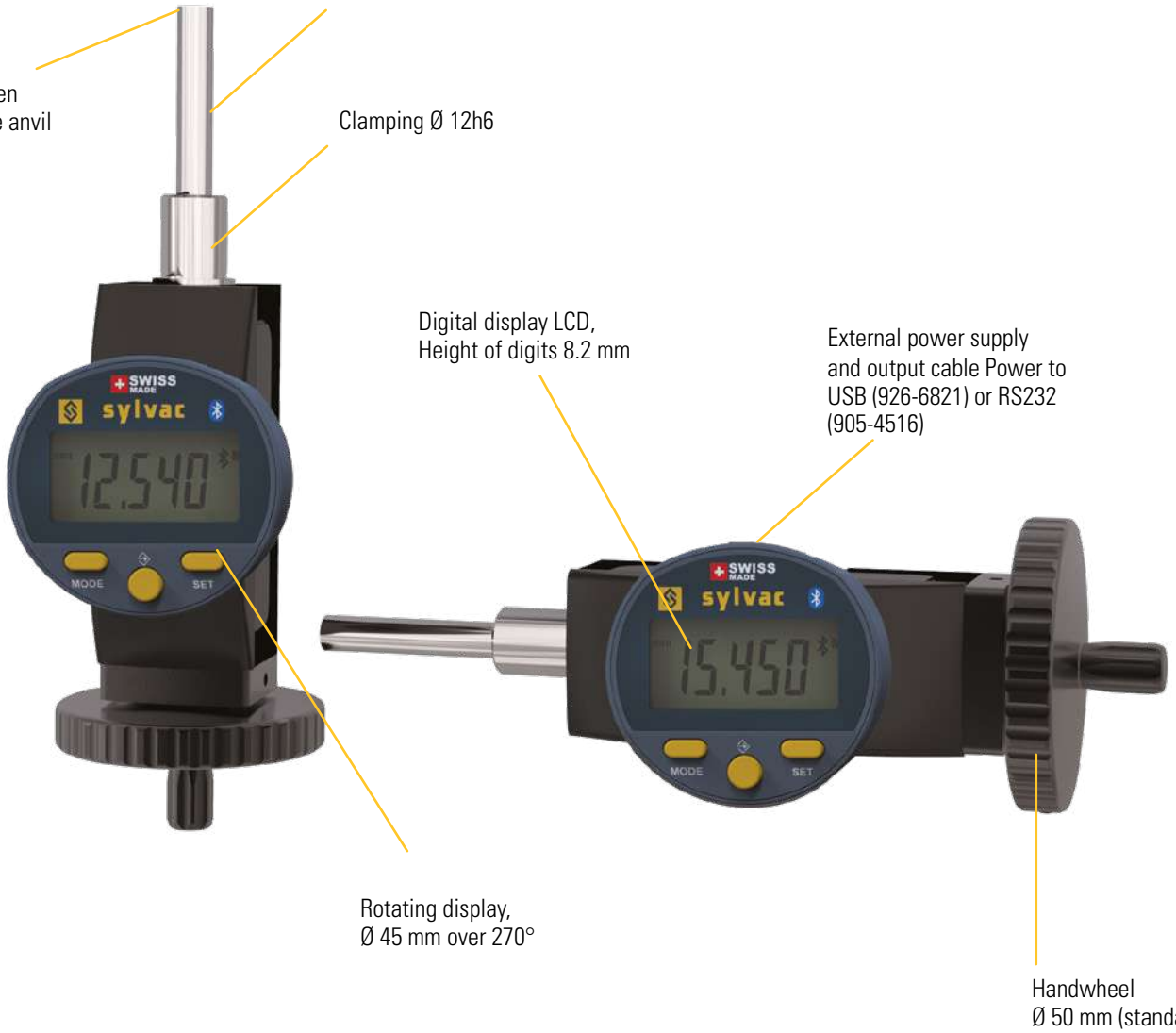
Digital micrometer screws

S_Screw Smart

DESCRIPTION

- Digital micrometric screws with Ø 45 mm dial rotatable by 270° allowing use in the X or Y axis
- Integrated Bluetooth® system
- Developed mainly to equip X-Y measuring tables (measuring microscopes)
- Display resolution 0.001 mm
- Non-turnable spindle Ø 6.5 with hard metal tip
- Fixing by Ø 12 h6
- Steering wheel Ø 50 mm
- Additional data output Power
- Measuring range 25 and 50 mm
- IP54 protection

Built-in Bluetooth®



Built-in Bluetooth®

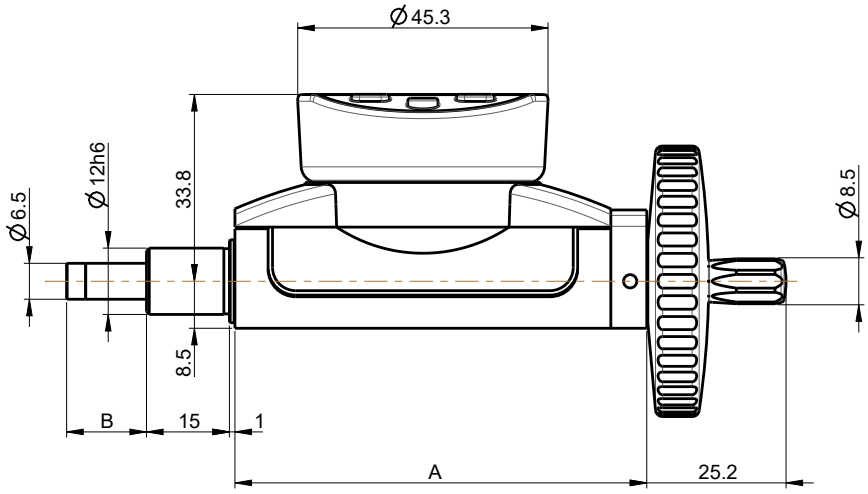
POWER

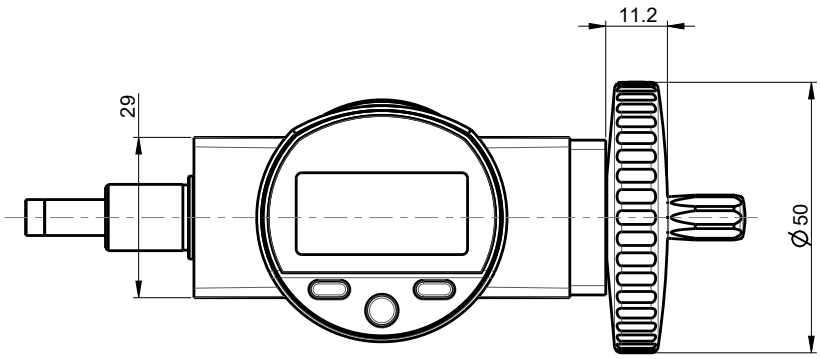
SWISS MADE

WATER RESISTANT

Digital micrometer screws S_Screw Smart

DIMENSIONAL DRAWING





TECHNICAL SPECIFICATIONS

		852-2601	852-2611
Measuring range	mm	0-25	0-50
Max. Error MPE	µm	5	8
Repeatability MPE_R	µm	2	2
Resolution	mm	0.001	0.001
A	mm	74.5	98.5
B	mm	33.1	57.1
Output data		Bluetooth® wireless technology / USB / RS232 [1]	
Selection of measuring direction		•	
PRESET function		•	
4 measurement references		•	
Multiplication factor		•	

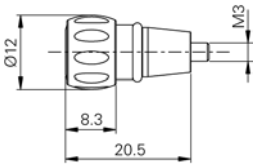
[1] see cables chapter

Digital micrometer screws S_Screw Smart

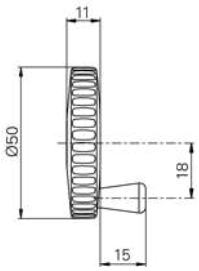
STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Quickstart
- Handwheel Ø 50 mm (852-2311)
- Calibration certificate

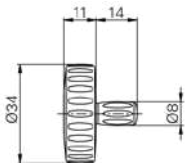
ACCESSORIES



852-2310	Fine adjustment device



852-2311	Handwheel Ø 50 mm with crank handle for fast motion



852-2312	Handwheel Ø 34 mm

APPLICATIONS

Fine adjustment device type 852.2310

Use on measuring microscope

Handwheel use

Protractor

Protractor Smart

DESCRIPTION

- Protractor with integrated Bluetooth® system
- Housing Ø 59.5 mm rotatable by 270°.
- Large display with colour LED tolerance status indication
- Angular value display in : Degrees, resolution 0.01° / Degrees/minute, resolution 0°01' / Radian, resolution .0001
- Three buttons, including the central button with selectable favourite function
- Ruler length 200 mm (other lengths available as an option)
- Measuring range: 1 x 360°, 2 x 180°, 4 x 90°.
- Additional data outputs Proximity and Power
- Protection class IP54

Built-in Bluetooth®

Built-in Bluetooth®

PROXIMITY

POWER

SWISS MADE

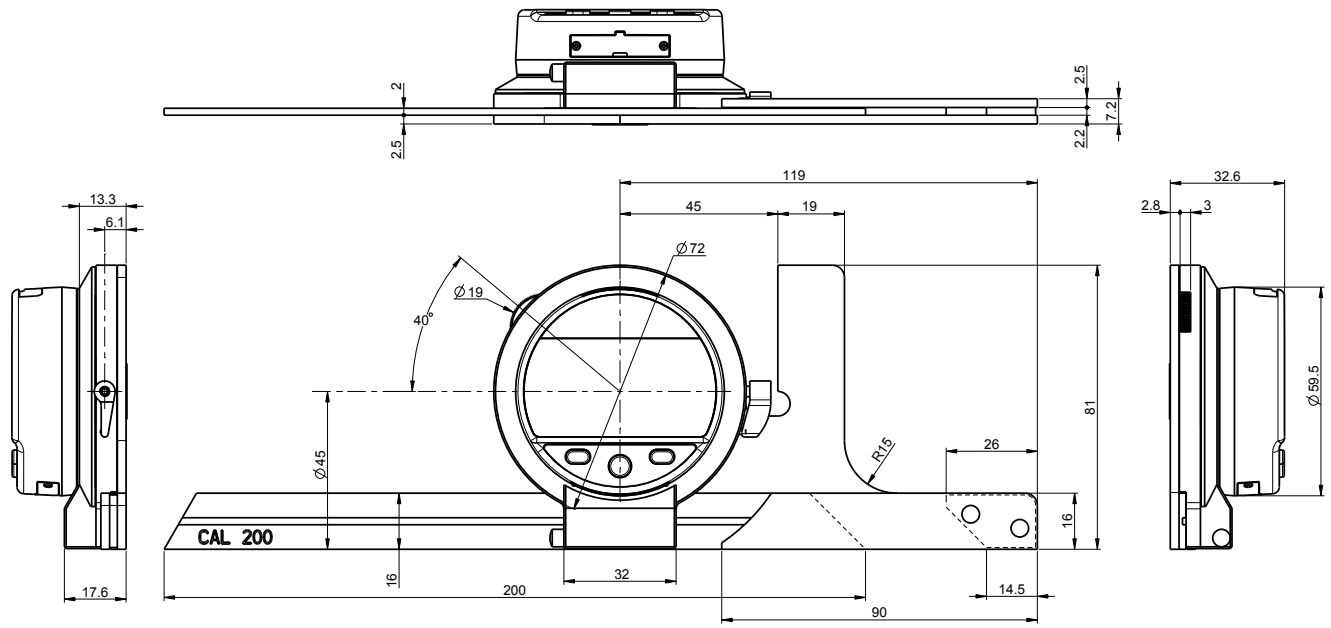
WATER RESISTANT

E

Protractor

Protractor Smart

DIMENSIONAL DRAWING



E

TECHNICAL SPECIFICATIONS

	820-1706
Measuring range	1x360°, 2x180°, 4x90°
Accuracy	4 minutes of arc / 0.06° / 0.0012 rad
Resolution	0.01° / 1 minute of arc (0°01') / 0.0001rad
Repeatability MPE_R	0.01°
Max. rotation speed	1080° / sec
Protection rating according to IEC 60529	IP54
Output data	Bluetooth® wireless technology / USB / RS232
Functions	Unit (dEG, rAd or d-M), reference, Preset, Measurement direction, mode MIN/MAX/ DELTA, tolerance display, switch off, keypad lock

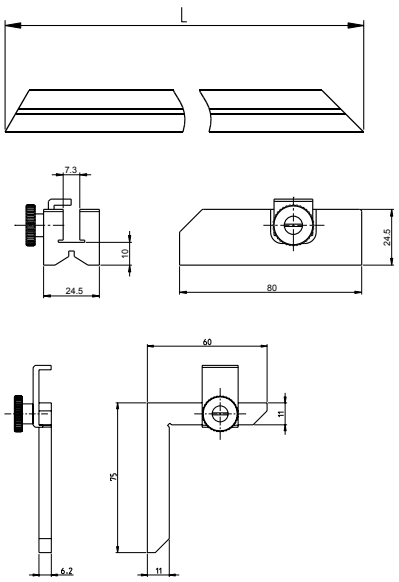
[1] see cables chapter

STANDARD DELIVERY

- Instrument according to technical specifications
- Wooden box [2]
- Scale 200 mm (820-2420)
- Lithium battery CR2032 included
- Instruction manual

[2] Fumigated, compatible ISPM 15 and NIMP 15

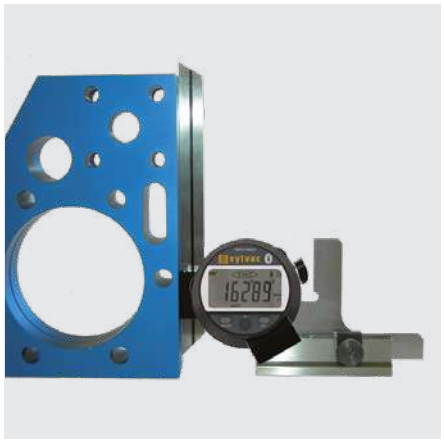
ACCESSORIES



820-2420	Scale L 200 mm
820-2430	Scale L 300 mm
820-2450	Scale L 500 mm
820-2460	Stand for vertical application and small angular measurements
820-2461	Square for small angular measurements

E

APPLICATIONS



Measurement with accessory type 820-2460

Standard measurement

Measurement with accessory type 820-2461

Depth gage S_Depth PRO Smart

DESCRIPTION

- Depth gages equipped with a compact Ø 45 mm rotating housing and integrated Bluetooth® system
- 100 mm wide bridge with holes for the attachment of an additional wider bridge
- Flat pole 20 x 5 mm in hardened and ground stainless steel
- Cursor locking screw
- Three buttons, including the central button with selectable favourite function
- Input of the constant for cylindrical or spherical touch button (with accessory 805-6103) for groove height measurement
- Digital display resolution 0.01 mm
- Measuring range 300 and 600 mm
- Additional data output «Power», works without battery when connected via this cable
- Interchangeable measuring key M2.5
- IP54 protection

Built-in Bluetooth®

Built-in Bluetooth®

POWER

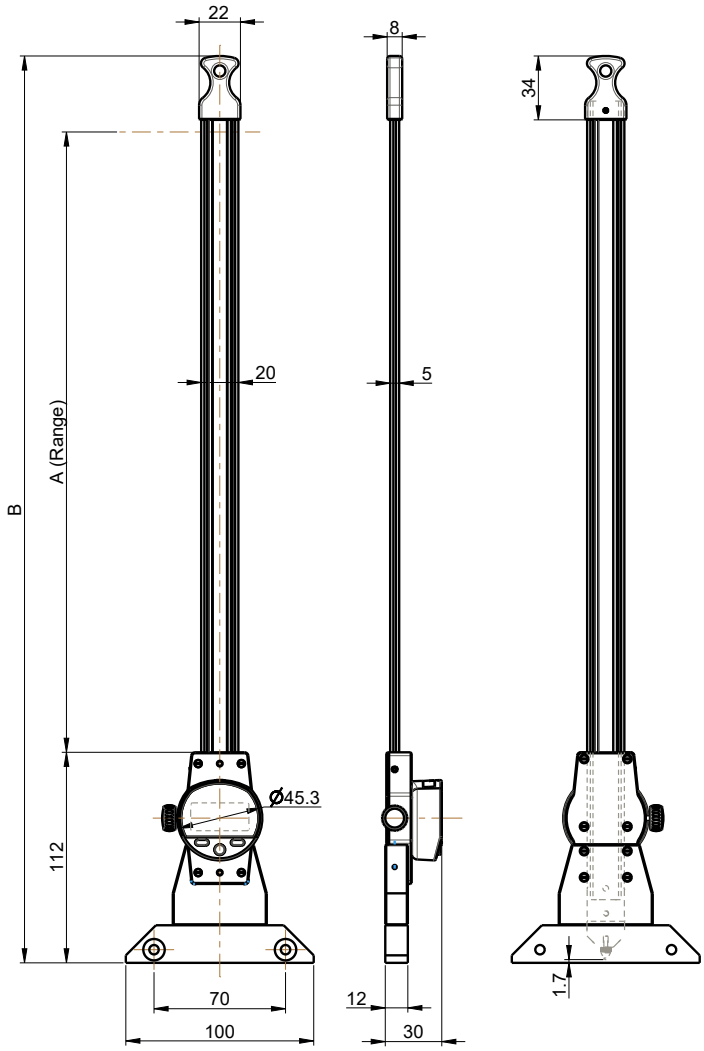
SWISS MADE

WATER RESISTANT

Depth gage

S_Depth PRO Smart

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		805-6605	805-6606
Measuring range	mm	300	600
Max. Error MPE	µm	30	40
Repeatability MPE_R [1]	µm	10	10
A	mm	335	625
B	mm	483	773
Output data		Bluetooth® wireless technology / USB / RS232 [2]	
2 References		●	
Automatic reference		●	
PRESET function		●	
Multiplication factor		●	

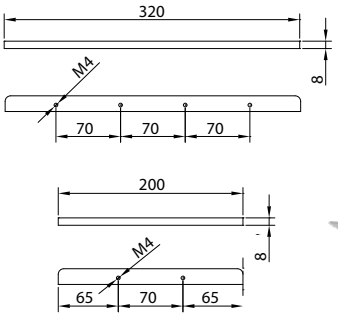
[1] ± 1 digit
[2] see cables chapter

Depth gage S_Depth PRO Smart

STANDARD DELIVERY

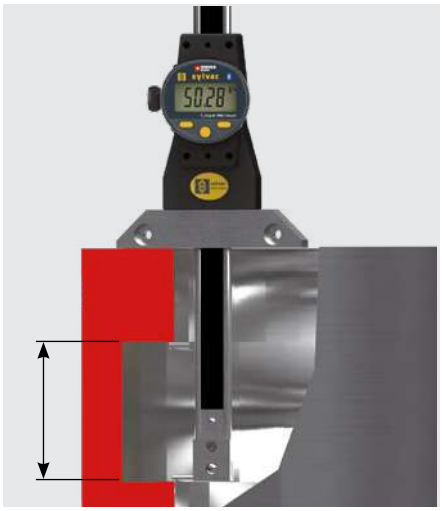
- Instrument according to technical specifications
- Lithium battery CR2032 included
- Quickstart
- Ball probe M2.5 Ø2mm (805-6101)

COMPATIBLE ACCESSORIES



		Length	Thickness
812-2241	Additionnal base	200 mm	8 mm
812-2240	Additionnal base	320 mm	8 mm
805-6101	Ball probe M2.5 (standard)		
805-6102	Anvils UP&DOWN		
805-6103	Anvil with pin Ø4 mm		

APPLICATIONS



Measure of an internal groove (height) thanks to the constant (automatic reference).

Depth measurement

Depth measurement in a drilling with an additionnal base

Digital scales

S_Scale EVO Smart

DESCRIPTION

- Digital scales with integrated Bluetooth® system
- Housing Ø 45 mm rotatable by 270° for horizontal or vertical use
- Flat pole 20 x 5 mm in hardened and ground stainless steel
- Digital display resolution 0.01 mm
- Three buttons, including the central button with selectable favourite function
- Supplied with a drive bar that can be positioned at the top or bottom of the display.
- Measuring range 150, 200, 300 and 600 mm
- Additional data output «Power», works without battery when connected via this cable
- IP54 protection

Built-in Bluetooth®

Built-in Bluetooth®

POWER

SWISS MADE

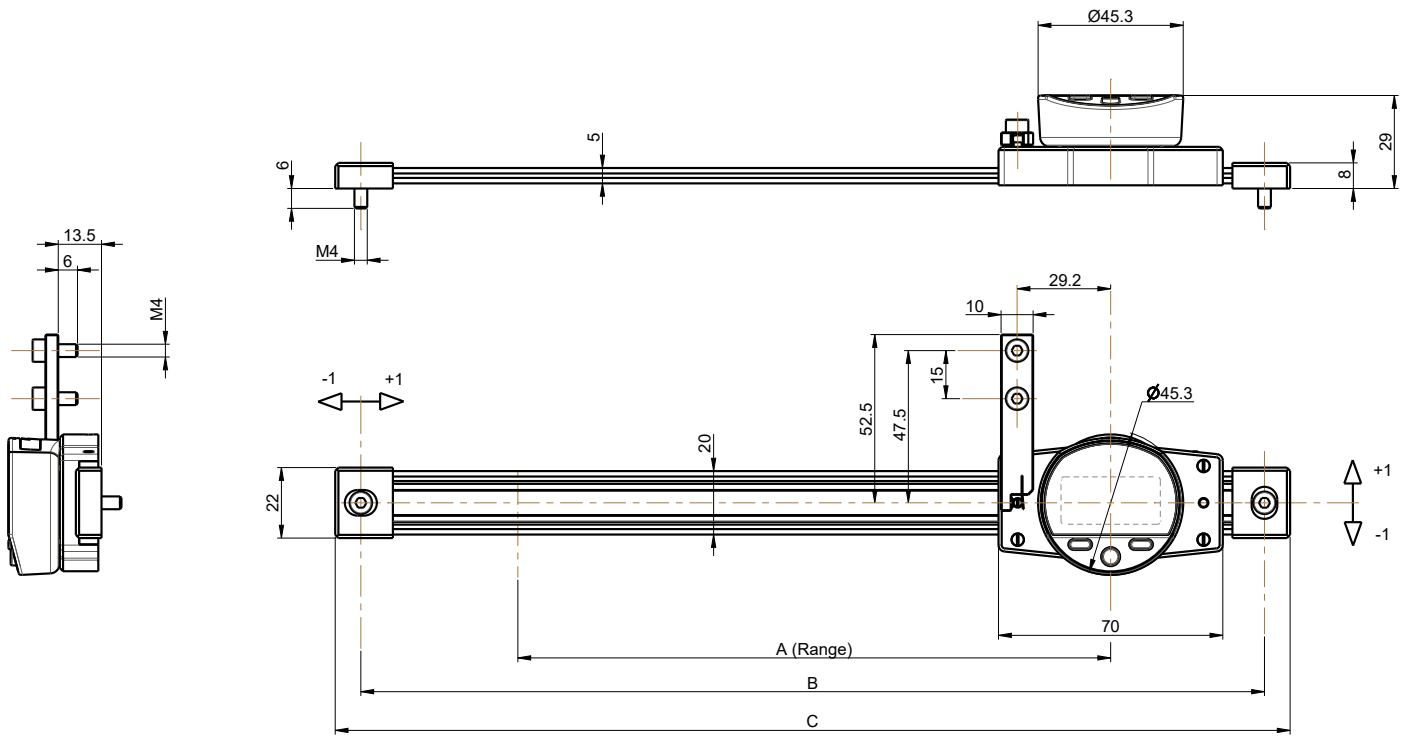
SIS Smart Inductive System

WATER RESISTANT

E

Digital scales S_Scale EVO Smart

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

		816-1615	816-1620	816-1630	816-1660
Measuring range	mm	150	200	300	600
Type		H / V	H / V	H / V	H / V
Max. Error MPE	µm	20	20	30	30
Repeatability MPE_R [1]	µm	10	10	10	10
Resolution mm		0.01	0.01	0.01	0.01
A	mm	185	235	335	665
B	mm	282	332	432	762
C	mm	298	348	448	778
Output data		Bluetooth® wireless technology / USB / RS232 [2]			
Selection of measuring direction		•			
PRESET function		•			
2 references		•			

[1] ± 1 digit
[2] see cables chapter

INTERNAL MEASURING INSTRUMENTS

It is often difficult to find a solution perfectly adapted to the measurement of internal dimensions which can be very complex. Sylvac and Bowers joined forces several decades ago to offer the most comprehensive range of instruments on the market for virtually any application. Whether you need to measure very precise, blind, deep bores or other internal elements such as grooves, threads, flutes, etc., you will certainly find the key to your problem in this chapter.

GENERAL CHARACTERISTICS :

- **Powered by lithium battery type CR2032**
- **Absolute measuring system S.I.S**
- **Automatic sleep and wake-up**
- **mm/inch conversion on all models**
- **Working temperature +5° to +40°C**

Bore gauges

Xtreme 3

DESCRIPTION

SMART

- New unit with integrated Bluetooth® system
- Display resolution 0.001 mm, digit height 9 mm
- Storage of the size of 4 calibration rings
- Interchangeable measuring heads with hard metal 2 points (Ø 2 to 6 mm) and 3 points (from Ø 6 mm) contact points
- Possibility to measure blind holes with the Ø 2 to 6 mm heads and from Ø 12.5 mm
- Instruments available in 2 versions:
  - XTD : unit with micrometric drum
  - XTH : pistol type unit, with quick retraction handle
- Measuring range Ø 2 to 300 mm
- Optional extensions available for measuring deep holes up to 2000 mm
- Calibration ring and certificates included with each individual instrument
- Special measuring heads for threads, grooves, splines, etc. available on request
- Additional Proximity data output
- Each instrument is delivered in a wooden box containing all items
- IP67 protection

Built-in Bluetooth

PROXIMITY

SIS Smart Inductive System

WATER RESISTANT

IP67

*** Up to 8 instruments connected per dongle #981-7100**

More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

Bore gauges

Xtreme 3

TECHNICAL SPECIFICATIONS INDIVIDUAL INSTRUMENTS XT3D SMART

XT3D	950-6006	950-6007	950-6008	950-6009	950-6010	950-6011	950-6012	950-6013
Meas. range mm	2-2.5	2.5-3	3-4	4-5	5-6	6-8	8-10	10-12.5
Type	XT3D BT 1M	XT3D BT 2M	XT3D BT 3M	XT3D BT 4M	XT3D BT 5M	XT3D BT 6M	XT3D BT 8M	XT3D BT 10M
Depth mm	9	9	12	18	18	58	58	58
Max. Error µm	4	4	4	4	4	4	4	4
Ø Incl. ring mm	2.5	2.5	4.0	4.0	5.0	8.0	8.0	12.5

XT3D	950-6014	950-6015	950-6016	950-6017	950-6018	950-6019	950-6020	950-6021
Meas. range mm	12.5-16	16-20	20-25	25-35	35-50	50-65	65-80	80-100
Type	XT3D BT 12M	XT3D BT 16M	XT3D BT 20M	XT3D BT 25M	XT3D BT 35M	XT3D BT 50M	XT3D BT 65M	XT3D BT 80M
Depth mm	62	62	66	66	80	80	80	100
Max. Error µm	4	4	4	4	4	5	5	5
Ø Incl. ring mm	12.5	20.0	20.0	35.0	35.0	65.0	65.0	80.0

XT3D	950-6022	950-6023	950-6024	950-6025	950-6026	950-6027	950-6028	950-6029
Meas. range mm	100-125	125-150	150-175	175-200	200-225	225-250	250-275	275-300
Type	XT3D BT 100M	XT3D BT 125M	XT3D BT 150M	XT3D BT 175M	XT3D BT 200M	XT3D BT 225M	XT3D BT 250M	XT3D BT 275M
Depth mm	115	115	115	115	118	118	118	118
Max. Error µm	6	6	7	7	8	8	9	9
Ø Incl. ring mm	125.0	125.0	175.0	175.0	225.0	225.0	275.0	275.0

Bore gauges

Xtreme 3

TECHNICAL SPECIFICATIONS INDIVIDUAL INSTRUMENTS XT3H

SMART

XT3H	954-6006	954-6007	954-6008	954-6009	954-6010	954-6011	954-6012	954-6013
Meas. range mm	2-2.5	2.5-3	3-4	4-5	5-6	6-8	8-10	10-12.5
Type	XT3H BT 1M	XT3H BT 2M	XT3H BT 3M	XT3H BT 4M	XT3H BT 5M	XT3H BT 6M	XT3H BT 8M	XT3H BT 10M
Depth	9	9	12	18	18	58	58	58
Max. Error µm	4	4	4	4	4	4	4	4
Ø Incl. ring mm	2.5	2.5	4.0	4.0	5.0	8.0	8.0	12.5

XT3H	954-6014	954-6015	954-6016	954-6017	954-6018	954-6019	954-6020	954-6021
Meas. range mm	12.5-16	16-20	20-25	25-35	35-50	50-65	65-80	80-100
Type	XT3H BT 12M	XT3H BT 16M	XT3H BT 20M	XT3H BT 25M	XT3H BT35M	XT3H BT 50M	XT3H BT 65M	XT3H BT 80M
Depth	62	62	66	66	80	80	80	85
Max. Error µm	4	4	4	4	4	5	5	5
Ø Incl. ring mm	12.5	20.0	20.0	35.0	35.0	65.0	65.0	80.0

F

XT3H	954-6022	954-6023	954-6024	954-6025	954-6026	954-6027	954-6028	954-6029
Meas. range mm	100-125	125-150	150-175	175-200	200-225	225-250	250-275	275-300
Type	XT3H BT100M	XT3H BT 125M	XT3H BT 150M	XT3H BT 175M	XT3H BT 200M	XT3H BT 225M	XT3H BT 250M	XT3H BT 275M
Depth	100	100	100	100	100	103	103	103
Max. Error µm	6	6	7	7	8	8	9	9
Ø Incl. ring mm	125.0	125.0	175.0	175.0	225.0	225.0	275.0	275.0

Bore gauges

Xtreme 3

STANDARD DELIVERY XT3D AND XT3H INDIVIDUAL

SMART

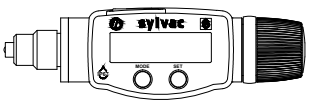
- Instrument according to technical specifications
- Wooden box (XT3D : from 150 mm = 2 box; XT3H : from 200 mm = 2 box) [1]
- Rings according to technical specifications + UKAS certificate
- 1 x digital display XT3DU or XT3PG
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate

[1] Fumigated compatible ISPM 15 and NIMP 15

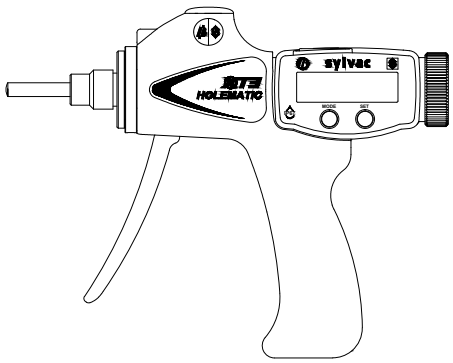
TECHNICAL SPECIFICATIONS ELECTRONIC UNITS XT3DU AND XT3PG

XT3DU	951-6001	951-6002	951-6003	951-6004	951-6005	951-6006	951-6007
Meas. range mm	2-6	6-10	10-20	20-50	50-100	100-300	200-300
Type	XT3DU BT 2M	XT3DU BT 6M	XT3DU BT 10M	XT3DU BT 20M	XT3DU BT 50M	XT3DU BT 100M	XT3DU BT 200M
Thread	1/4''x 40 TPI	M5 x 0.5	5/16''x 40 TPI	5/8''x 24 TPI	5/8''x 24 TPI	5/8''x 24 TPI	5/8''x 24 TPI

XT3PG	955-6001	955-6002	955-6003	955-6004
Meas. range mm	2-6	6-20	20-100	100-300
Type	XT3PG BT 01M	XT3PG BT 02M	XT3PG BT 03M	XT3PG BT 04M
Thread	1/4''x 40 TPI	5/16''x 40 TPI	5/8''x 24 TPI	5/8''x 24 TPI



XT3DU



XT3PG

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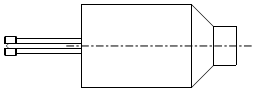
Bore gauges

Xtreme 3

TECHNICAL SPECIFICATIONS MEASURING HEADS XTHD

SMART

	953-2496	953-2497	953-2498	953-2499	953-2500
Meas. range mm	2-2.5	2.5-3	3-4	4-5	5-6
Type	XTHD1	XTHD2	XTHD3	XTHD4	XTHD5
Execution	2 points / ST	2 points / ST	2 points / ST	2 points / ST	2 points / ST



2 points head

	953-2501	953-2502	953-2503	953-2504	953-2505
Meas. range mm	6-8	8-10	10-12.5	12.5-16	16-20
Type	XTHD6	XTHD8	XTHD10	XTHD12.5	XTHD16
Execution	3 points / ST	3 points / ST	3 points / ST	3 points / TC	3 points / TC

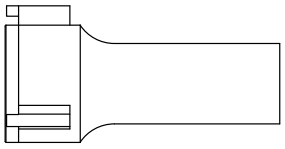
	953-2506	953-2507	953-2508	953-2509	953-2510
Meas. range mm	20-25	25-35	35-50	50-65	65-80
Type	XTHD20	XTHD25	XTHD35	XTHD50	XTHD65
Execution	3 points / TC	3 points / TC	3 points / TC	3 points / TC	3 points / TC

	953-2511	953-2512	953-2513	953-2514	953-2515
Meas. range mm	80-100	100-125	125-150	150-175	175-200
Type	XTHD80	XTHD100	XTHD125	XTHD150	XTHD175
Execution	3 points / TC	3 points / TC	3 points / TC	3 points / TC	3 points / TC

	953-2516	953-2517	953-2518	953-2519
Meas. range mm	200-225	225-250	250-275	275-300
Type	XTHD200	XTHD225	XTHD250	XTHD275
Execution	3 points / TC	3 points / TC	3 points / TC	3 points / TC

ST = steel
TC = tungsten carbide

All heads are compatible with the XT3D and XT3H systems.



3 points head

F

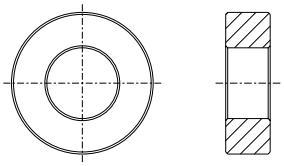
Bore gauges

Xtreme 3

TECHNICAL SPECIFICATIONS SETTING RINGS XTR

SMART

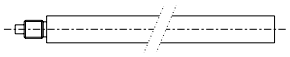
		953-2598	953-2599	953-2600	953-2601	953-2602	953-2603
Size	mm	2.5	4	5	8	12.5	20
Type		XTR2.5	XTR4	XTR5	XTR8	XTR12.5	XTR20



		953-2604	953-2605	953-2606	953-2607	953-2608	953-2609	953-2610
Size	mm	35	65	80	125	175	225	275
Type		XTR35	XTR65	XTR80	XTR125	XTR175	XTR225	XTR275

TECHNICAL SPECIFICATIONS EXTENSIONS SX

		953-2001	953-2002	953-2003	953-2004	953-2005
Meas. range	mm	6-10	10-12.5	12.5-20	20-50	50-300
Type		SX200	SX400	SX500	SX1	SX4
Length	mm	63	76	100	150	150



Other accessories

		953-2010	953-2011
Description		Stand	Depth stop
Meas. range	mm	2-50	2-6

F

APPLICATIONS

Pistol measuring system

Measuring with ratchet XTD system

Measuring with pistol XTH system

Bore gauges

Xtreme SETS

DESCRIPTION

SMART

- Sets available in XTD and XTH versions
- The XTH sets are delivered with the pistol type unit, the heads necessary to cover the measuring range of the set as well as the calibration rings and certificates.
- The XTD sets are delivered as desired:
  - Together with the drum unit, the heads required to cover the range of the set, as well as the rings and calibration certificates
  - With a complete instrument (unit and head) for each measuring range, as well as calibration rings and certificates
- Measuring range Ø 2 to 200 mm (up to Ø 300 mm on request)
- Each set is delivered in a wooden box containing all items

951-6105

Output cable Proximity to USB (926-6721) or RS232 (926-6723) and Bluetooth® Wireless technology

Electronic unit

Ring

Head

955-6105

Built-in Bluetooth®

PROXIMITY

SIS Smart Inductive System

WATER RESISTANT

IP67

951-7105

*** Up to 8 instruments connected per dongle #981-7100**

More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

Bore gauges

Xtreme SETS

TECHNICAL SPECIFICATIONS INSTRUMENTS SETS

SMART

Sets XT3D	951-6102	951-6103	951-6104	951-6105
Meas. range mm	2-6	6-10	10-20	20-50
Type	SXT3D 1M BT	SXT3D 3M BT	SXT3D 4M BT	SXT3D 5M BT
Number of instruments	1	1	1	1
Number of heads	5	2	3	3
Numb. of rings	3	1	2	2
Meas. Force	8N	7N	15N	21N

Sets XT3D	951-6106	951-6107	951-6108	951-6109
Meas. range mm	50-100	100-150	150-200	100-200
Type	SXT3D 6M BT	SXT3D 7M BT	SXT3D 8M BT	SXT3D 9M BT
Number of instruments	1	1	1	1
Number of heads	3	2	2	4
Numb. of rings	2	1	1	2
Meas. Force	28N	32N	32N	32N

Sets XTDU	951-7103	951-7104	951-7105	951-7106
Meas. range mm	6-10	10-20	20-50	50-100
Type	SXTD3U-BT	SXTD4U-BT	SXTD5U-BT	SXTD6U-BT
Number of instruments	2	3	3	3
Number of heads	2	3	3	3
Numb. of rings	1	2	2	2

Sets XT3H	955-6102	955-6103	955-6104	955-6105	955-6106
Meas. range mm	2-6	6-10	10-20	20-50	50-100
Type	SXT3H 1M BT	SXT3H 3M BT	SXT3H 4M BT	SXT3H 5M BT	SXT3H 6M BT
Number of instruments	1	1	1	1	1
Number of heads	5	2	3	3	3
Numb. of rings	3	1	2	2	2
Meas. Force	4N	9N	9N	19N	19N

Sets XT3H	955-6107	955-6108	955-6114	955-6115	955-6116
Meas. range mm	100-150	150-200	6-20	20-100	100-200
Type	SXT3H 7M BT	SXT3H 8M BT	SXTH10 BM BT	SXTH11 BM BT	SXT3H 9M BT
Number of instruments	1	1	1	1	1
Number of heads	2	2	5	6	4
Numb. of rings	1	1	3	4	2
Meas. Force	22N	22N	9N	19N	22N

High accuracy internal measurement Ultima

DESCRIPTION

- High-precision internal measuring set consisting of an ergonomic handle with release lever, a absolute digital probe mounted in the handle, measuring head, external display unit for reading the value, calibration ring and certificates
- Interchangeable measuring heads (quick system) 2 points (Ø 2 to 6 mm) and 3 points (from Ø 6 mm). XT measuring heads are not compatible with the Ultima system.
- Tungsten carbide measuring heads up to Ø 10-12 mm and ceramic measuring heads from Ø 12-14 mm.
- Possibility to measure blind holes from Ø 12 mm upwards
- Display resolution 0.001 or 0.0001 mm (1 µm or 0.1 µm)
- Measuring range Ø 2 to 310 mm
- Available with special measuring heads for threads, grooves, flutes, etc. on request
- Available as an individual instrument or as a set
- Delivered in a wooden box containing all items

SWISS MADE

RS232

Output cable RS232 to RS232 (926-5609) or USB (925-1142) or output cable mini-USB sur USB (926-6001)

High accuracy internal measurement Ultima

TECHNICAL SPECIFICATIONS OF INDIVIDUAL INSTRUMENTS

		960-1206	960-1207	960-1208	960-1209	960-1210	960-1211	960-1212	960-1213
Meas. range	mm	2.0-2.5	2.5-3	3-4	4-5	5-6	6-8	8-10	10-12
Ring Ø	mm	2.5	2.5	4	5	5	8	8	12
Depth	mm	9	9	12	18	18	60	60	61
Max. Error	µm	1	1	1	1	1	1	1	1

		960-1214	960-1215	960-1216	960-1217	960-1218	960-1219	960-1220	960-1221
Meas. range	mm	12-14	14-17	17-20	20-24	24-28	28-32	32-38	38-44
Ring Ø	mm	12	17	17	24	24	32	32	44
Depth	mm	61	61	61	69	69	69	72	72
Max. Error	µm	1	1	1	1	1	1	1	1

		960-1222	960-1223	960-1224	960-1225	960-1226	960-1227	960-1228	960-1229
Meas. range	mm	44-50	50-60	60-70	70-80	80-90	90-100	100-110	110-120
Ring Ø	mm	44	60	60	80	80	100	100	120
Depth	mm	72	80	80	80	80	80	80	80
Max. Error	µm	1	1	1.5	1.5	1.5	1.5	1.5	1.5

		960-1230	960-1231	960-1232	960-1233	960-1234	960-1235	960-1236	960-1237
Meas. range	mm	120-130	130-140	140-150	150-160	160-170	170-180	180-190	190-200
Ring Ø	mm	120	140	140	160	160	180	180	200
Depth	mm	80	80	80	80	80	80	80	80
Max. Error	µm	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

		960-1238	960-1239	960-1240	960-1241	960-1242	960-1243	960-1244	960-1245
Meas. range	mm	200-210	210-220	220-230	230-240	240-250	250-260	260-270	270-280
Ring Ø	mm	200	220	220	240	240	260	260	280
Depth	mm	80	80	80	80	80	80	80	80
Max. Error	µm	1.5	2	2	2	2	2	2	2

		960-1246	960-1247	960-1248
Meas. range	mm	280-290	290-300	300-310
Ring Ø	mm	280	300	300
Depth	mm	80	80	80
Max. Error	µm	2	2	2

High accuracy internal measurement Ultima

TECHNICAL SPECIFICATIONS SETS

	961-1302	961-1303	961-1304
Meas. range mm	2-6	6-10	10-20
Number of rings	3	1	2

	961-1307	961-1308	961-1309	961-1310
Meas. range mm	6-20	20-50	50-100	20-100
Number of rings	3	3	3	6

STANDARD DELIVERY

Individual

- Instrument according to technical specifications (handle with integrated probe + head)
- Setting rings according to technical specifications
- Wooden box [1)]
- Certificate

Sets

- Instrument according to technical specifications (handle with integrated probe + head)
- Setting rings according to technical specifications
- Digital display D62S Advanced (804-1063)
- Probe P12D Standard (801-2212)
- Wooden box [1)]
- Instruction manual + certificate

[1)] Fumigated compatible ISPM 15 and NIMP 15

TECHNICAL SPECIFICATIONS HANDLES

	961-3001	961-3002	961-3003	961-3004
Meas. range mm	2-6	6-20	20-100	100-310

Probe included

TECHNICAL SPECIFICATIONS EXTENSIONS

	961.2001	961.2002	961.2003	961.2004	961.2005	961.2006	961.2007
Meas. range mm	6-10	10-12	12-20	20-50	50-310	20-50	50-310
Length mm	63	75	100	50	50	150	150

High accuracy internal measurement

Ultima

APPLICATIONS

Data output through USB

Two Ultima gauges connected with one unit Sylvac D62S only

Adjustable depth stop (on request)

Set including 6 measuring heads, 3 master rings, 1 D62S, the handle and his probe, charging unit

F

Bore gauges

Special applications

DESCRIPTION

- XTD or XTH instrument equipped with a special measuring head manufactured according to the particular item to be measured
- These instruments are subject to a feasibility analysis and a preliminary price offer based on the design of the component to be measured.
- We can measure the following elements :
  - Grooves, notches
  - Threads from M4 (all types)
  - Splines
  - Deep holes
  - etc.
- Delivery time 4-8 weeks

Grooves and slots head

Threads measuring head

Spherical anvils head

Built-in Bluetooth

PROXIMITY

SIS Smart Inductive System

WATER RESISTANT

IP67

Ball screw head

HEIGHT GAUGES
Hi_Cal, Hi_Gage ONE

An indispensable instrument in the workshop, the measuring column allows you to quickly measure heights, distances, internal and external diameters, centre-to-centre distances or even particular points (minimum or maximum). In this chapter you will find a range of columns comprising 2 models, from the simplest to the most complete, all connectable via Bluetooth® for maximum user convenience.

GENERAL CHARACTERISTICS :

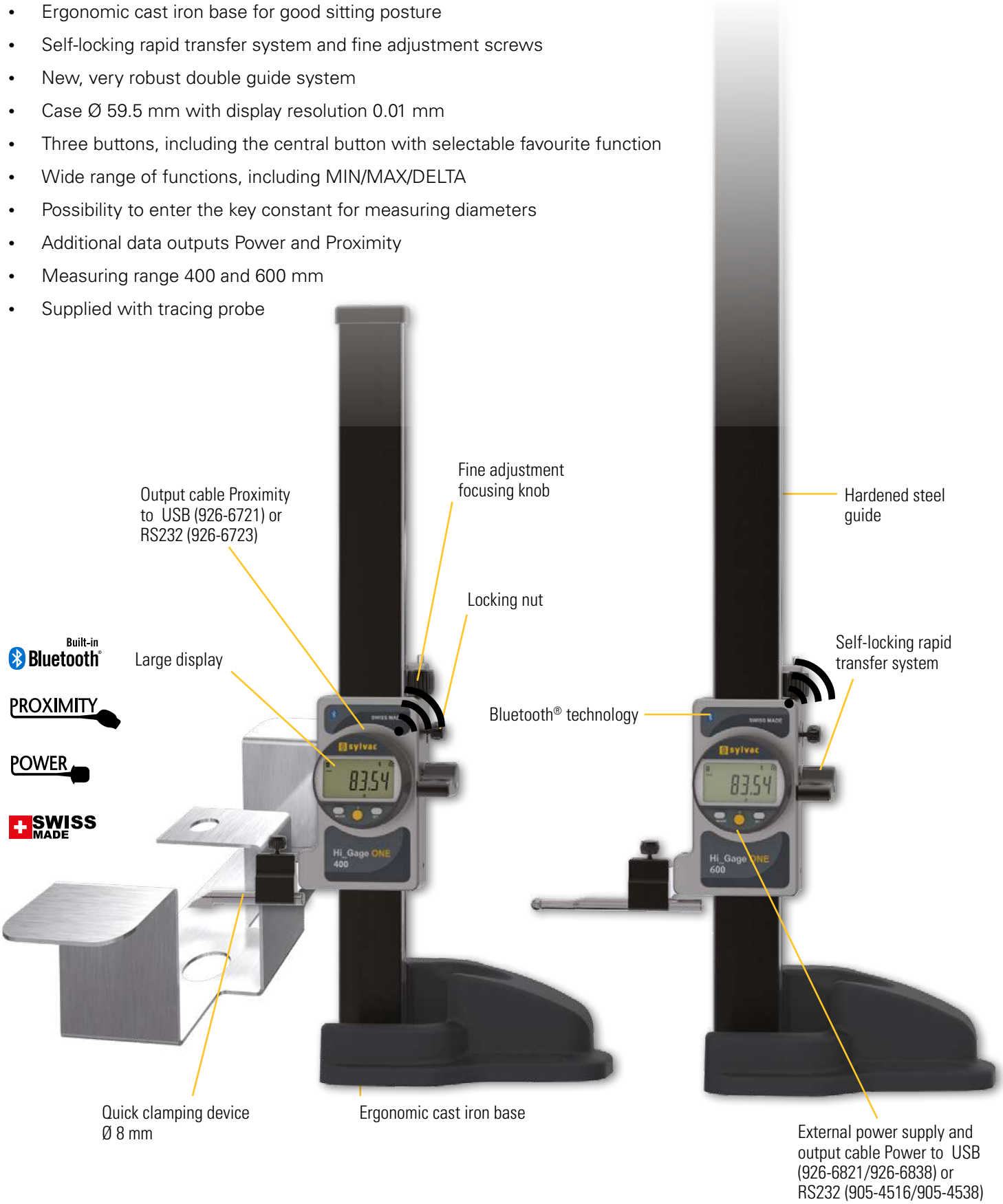
- **Powered by a CR2032 lithium battery for Hi_Gage ONE columns 230V power supply for other models**
- **mm/inch conversion on all models**
- **Working temperature +5° to +40°C**

Height gauge

Hi_Gage ONE Smart

DESCRIPTION

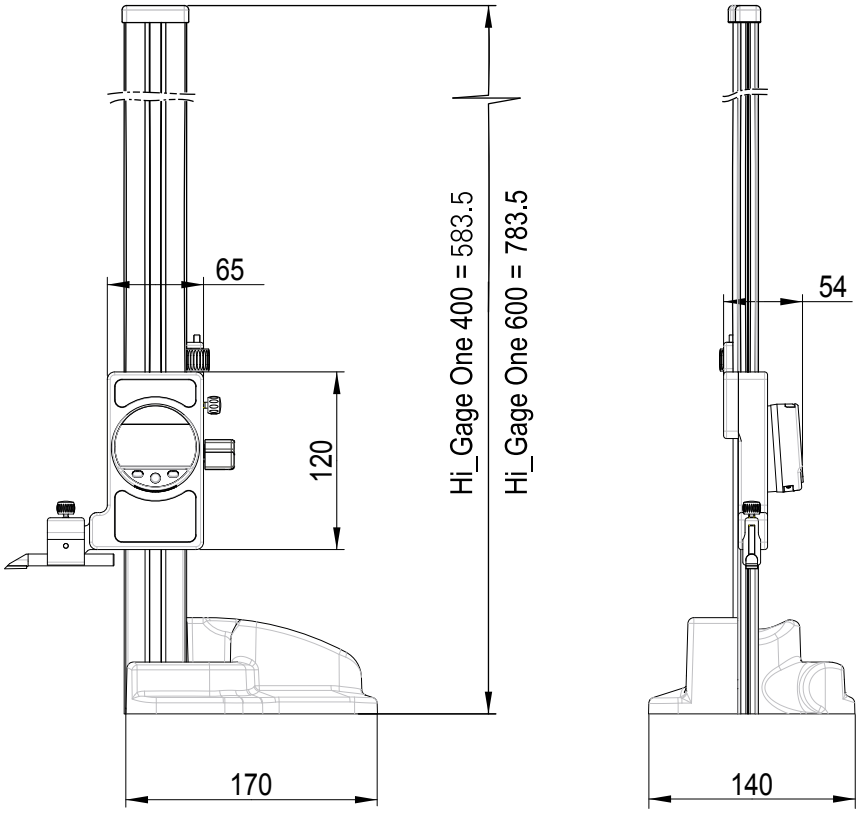
- Measuring and tracing column with integrated Bluetooth® system
- Ergonomic cast iron base for good sitting posture
- Self-locking rapid transfer system and fine adjustment screws
- New, very robust double guide system
- Case Ø 59.5 mm with display resolution 0.01 mm
- Three buttons, including the central button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA
- Possibility to enter the key constant for measuring diameters
- Additional data outputs Power and Proximity
- Measuring range 400 and 600 mm
- Supplied with tracing probe



Height gauge

Hi_Gage ONE Smart

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

		840-0406	840-0606
Measuring range	mm	400	600
Resolution	mm	0.01	0.01
Max. error MPE	µm	40	50
Repeatability MPE_R	µm	10 [1]	10 [1]
2 references		●	●
PRESET		9000.00	
Selection of measuring direction		●	
Smart Inductive Sensor (S.I.S)		●	
Standard probe		Tracing probe (840-9002)	
Output data		Bluetooth® wireless technology / RS232 / USB	

[1] ± 1 digit

STANDARD DELIVERY

- Tracing probe (840-9002)
- Calibration certificate
- Quickstart

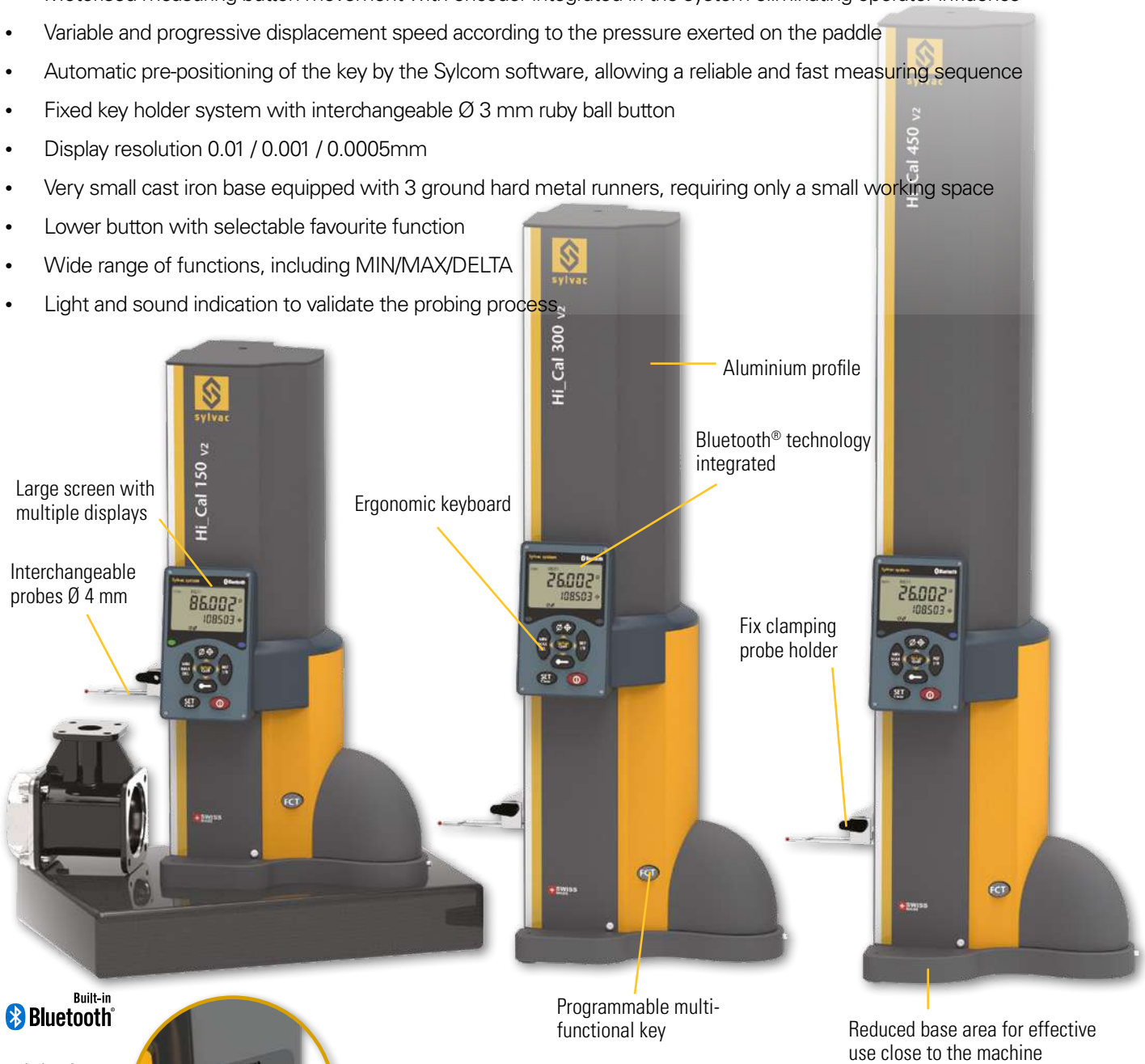
G

Height gauge

Hi_Cal V2 Smart

DESCRIPTION

- 1D workshop measuring columns with integrated Bluetooth® system and battery
- Perfectly suited for the rapid measurement of heights, depths, thicknesses, internal and external diameters, centre-to-centre distances, etc.
- Value of the key constant stored in memory even after the instrument is switched off.
- Compact and lightweight columns are easy to handle and do not require an air cushion.
- New construction with simplified guidance systems to ensure reliability
- Motorised measuring button movement with encoder integrated in the system eliminating operator influence
- Variable and progressive displacement speed according to the pressure exerted on the paddle
- Automatic pre-positioning of the key by the Sylcom software, allowing a reliable and fast measuring sequence
- Fixed key holder system with interchangeable Ø 3 mm ruby ball button
- Display resolution 0.01 / 0.001 / 0.0005mm
- Very small cast iron base equipped with 3 ground hard metal runners, requiring only a small working space
- Lower button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA
- Light and sound indication to validate the probing process



Built-in Bluetooth®

mini-USB

RS232

SWISS MADE

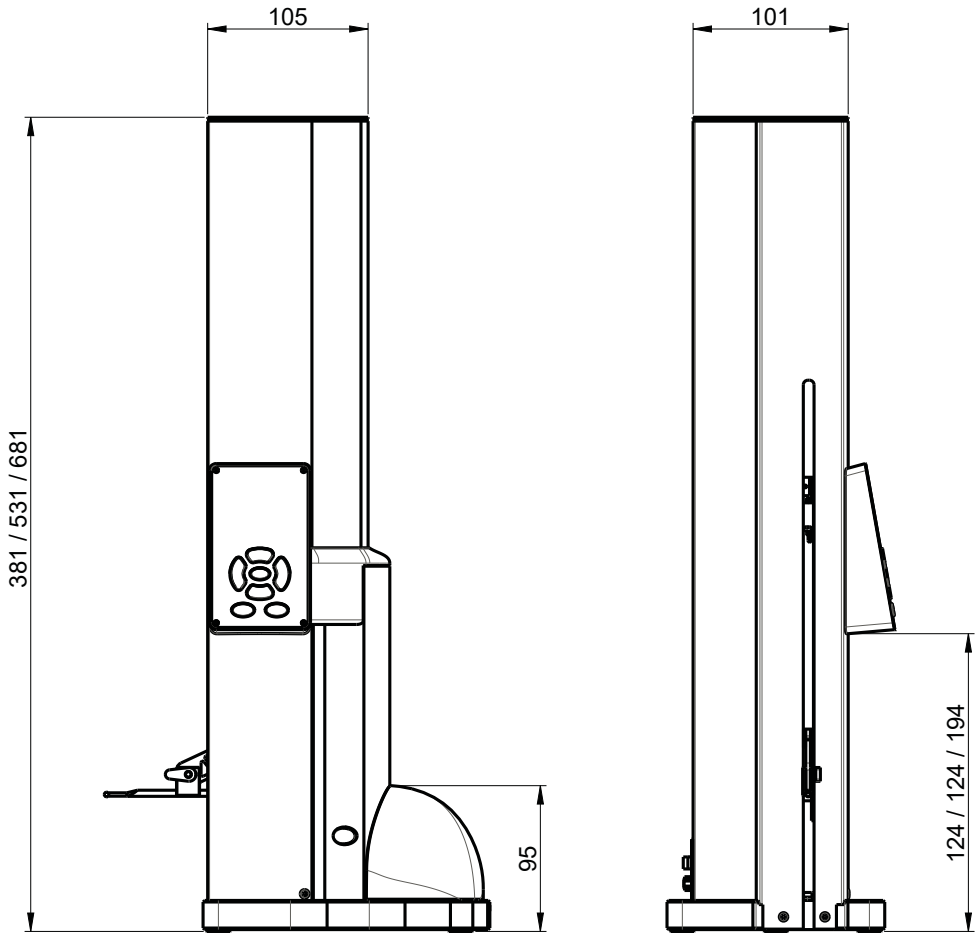
Output cable RS232 to USB (925-1142) or RS232 (925-5609) or output cable mini-USB to USB (926-6001)

Switch on and measure!

Height gauge

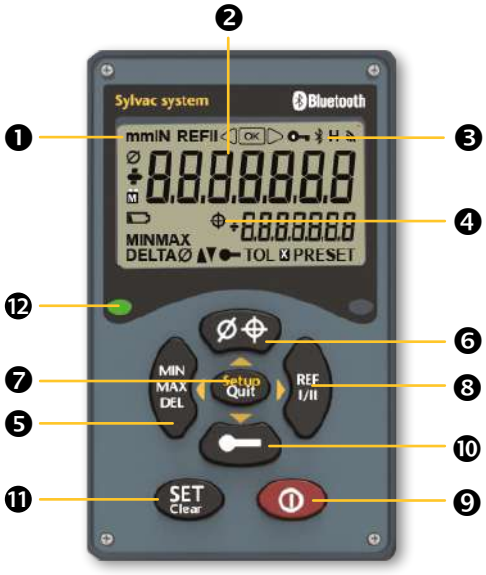
Hi_Cal V2 Smart

DIMENSIONAL DRAWINGS



DISPLAYS

❶ **Measuring unit and actives reference**
❷ **Display of measuring value**
❸ **Bluetooth® Technology**
❹ **Centerline display**
❺ **Dynamic measuring mode**
❻ **Diameter / surface measurement**
❼ **Access to setting menu**
❽ **Selection of reference Ref I / Ref II**
❾ **ON / Standby / OFF Switch**
❿ **Ball probe constant**
⓫ **Zero / Initialization of min, max mode**
⓬ **Luminous indication of valide measurement**



G

Height gauge

Hi_Cal V2 Smart

TECHNICAL SPECIFICATIONS

		830-0156	830-0306	830-0456
Measuring range	mm	150	300	450
Max. Error MPE	µm	2.0 + L / 200[1]		
Repeatability MPE_R	µm	1		
Resolution	mm	0.01 / 0.001 / 0.0005		
Velocity	mm/s	100		
Measuring force	N	0.25 - 0.35		
Autonomy of the battery	h	< 40[4]		
Height	mm	381	531	681
Weight	kg	4.0	4.7	6.8
Weight of the standard probe		7.5g, possibility of using 0-15g or 10-25g [2] probes		
Output data		USB / RS232 / Bluetooth® [3]		
Programmable by PC		●		
Zero setting		●		
Min / max / delta		●		
PRESET function		●		
2 references		●		
Height measurement, Ø and centerlines		●		
1 type of progressive speed		●		

[1] With standard probe, in laboratory conditions
[2] With adjustement of the measuring force
[3] See cables chapter
[4] 8h/d at 20% use, 16h/d sby

G

STANDARD DELIVERY

- Loose cover Hi_Cal 150 (930-6001)
- Loose cover Hi_Cal 300 (930-6002)
- Loose cover Hi_Cal 450 (930-6005)
- Charging set (904-4200[1] /01/03/04/05)
- Ruby ball probe Ø 3 mm
- Setting gauge
- Calibration certificate
- Quickstart

[1] according to country

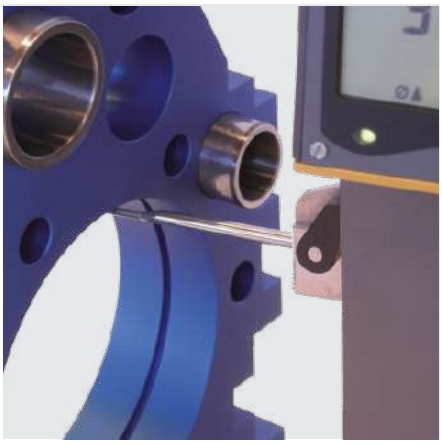
Height gauge

Hi_Cal V2 Smart

APPLICATIONS

Depth measurement with accessories 930-2108 and 930-2105

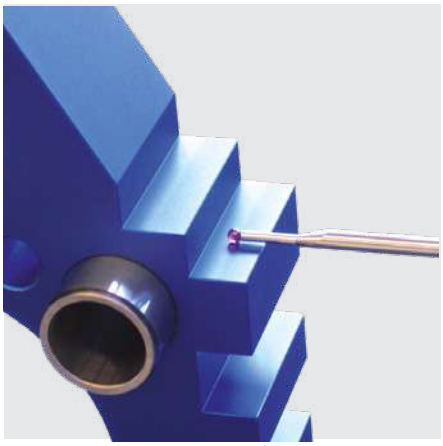
Depth measurement with accessories 930-2108 and 905-2204



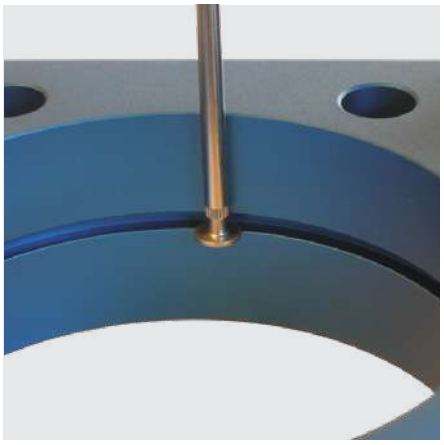
Internal measurement with ruby ball probe Ø 3 mm, 930-2101 (standard)

Internal groove measurement with accessories 930-2108, 930-2110 and 905-2207

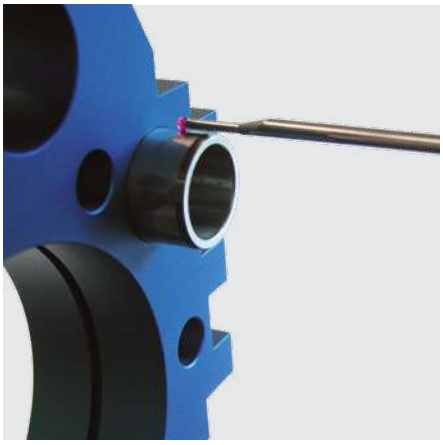
Taking the probe constant value with the setting bloc 930-2002 (standard)



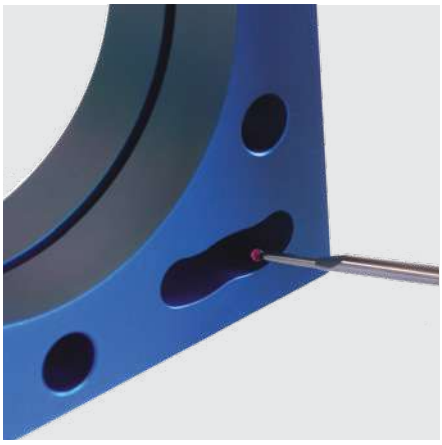
Heights and thicknesses measurements with the standard probe 930-2101



Internal groove measurement with accessories 930-2108, 930-2110 and 905-2205



External diameter measurement with the standard probe 930-2101

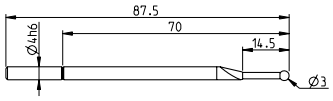


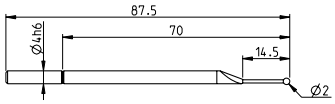
Min/Max/Delta measurements

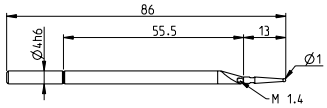
G

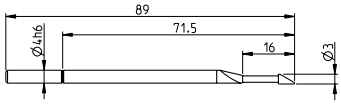
Height gauge

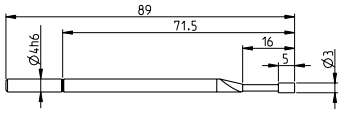
ACCESSORIES

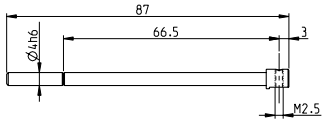


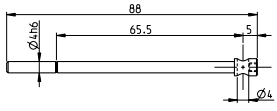


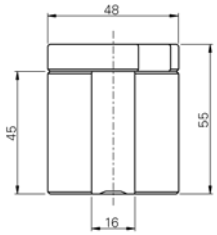










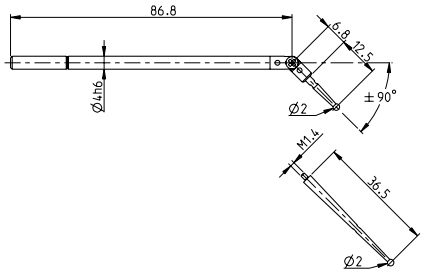
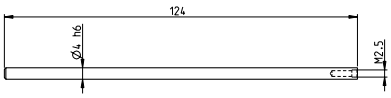
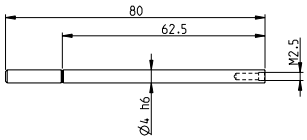
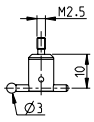
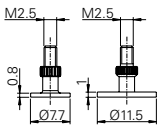


		Hi_Cal	Hi_Gage
930-2101	Ruby ball probe Ø 3 mm	●	
930-2103	Ruby ball probe Ø 2 mm	●	
930-2104	Tungsten carbide ball probe Ø 1 mm	●	
930-2105	Knife-edged measuring probe TC Ø 3 mm	●	
930-2106	Cylindrical measuring probe TC Ø 3 mm	●	
930-2107	Probe holder 90° M2.5	●	
930-2108	Probe holder 90° Ø 4 mm	●	
930-2002	Setting gauge	●	
904-4200	Charging set 100-240V / 9V	●	
904-4205	EUR cable, included in 904-4200 (CH - 904-4201)	●	
904-4204	UK cable, included in 904-4200	●	
904-4203	USA/JPN cable, included in 904-4200	●	

G

Height gauge

ACCESSORIES

		Hi_Cal	Hi_Gage
	**930-2102**	Swivelling tungsten carbide ball probe (M1.4)	•	
	**930-2109**	Extension 124 mm M2.5	•	
	**930-2110**	Extension 80 mm M2.5	•	
	**905-2207**	Probe holder and ruby ball probe Ø 3 mm, M2.5	•	
	**905-2205**	Disk shaped anvils Ø 7.7 mm and Ø 11.5 mm, M2.5	•	
	930-2150	Full accessory set in wooden box Content : 930-2103, 930-2104, 930-2105, 930-2106, 930-2107, 930-2108, 930-2109, 930-2110, 905-2204, 905,2205, 905-2207	•	
	930-2151	Basic accessory set in wooden box Content : 930-2103, 930-2104, 930-2105, 930-2106	•	
	904-4101	External contact (foot-pedal)	•	

G

Height gauge

ACCESSORIES

			Hi_Cal	Hi_Gage
	930-2111	Carbon probe-holder 200mm, Ø4mm	•	
	930-2112	Demonstration piece	•	•
	840-9001	Ball probe Ø8mm		•
	840-9002	Tracing probe (standard delivery)		•
	905-2247	Clamping stem		•

G

PROBES, DISPLAY UNITS AND INTERFACES

An important chapter covering our measuring probes, display and multifunctional units as well as interfaces and multiplexers. This technical equipment is also used for control stations in workshops, laboratories or integrated in machines and automatic production lines controlled by a programmable logic controller. The most diverse solutions are presented to you in this section of our catalogue.

GENERAL CHARACTERISTICS :

- **230V power supply for all units**
- **mm/inch conversion on all models**
- **Working temperature +0° to +40°C**

Measuring probes

LISTING OF ALL MODELS

	INDUCTIVE				CAPACITIVE								
TYPE	P2i	P2iP	P5i	P5iP	P5	P5BL	P5V	P5B	P5BVL	P5L	P5VL	P12D HR USB	P12D HR USB CF
ORDER NUMBER	900-1101	900-1102	900-1111	900-1112	900-1001	900-1002	900-1003	900-1004	900-1007	900-1006	900-1008	801-1012	801-1018
RANGE													
±2 mm	●	●											
5 mm					●	●	●	●		●	●		
± 5 mm			●	●									
10 mm													
12.7 mm												●	●
25 mm													
+/- 0.6 mm													
EXECUTION													
Plain bearing					●		●			●	●		
B- Ball bearing	●	●	●	●		●		●	●			●	●
Pneumatic push		●		●									
V- Vacuum lifter							●		●		●		
L- 90 degrees cable	*		*			●			●	●	●		
S- with rubber boot	●	●	●	●	●	●	●	●	●	●	●		
MECHANIC													
Diameter 8 mm h6	●	●	●	●	●	●	●	●	●	●	●	●	●
Diameter 12 mm												●	●
Measuring anvil M2.5	●	●	●	●	●	●	●	●	●	●	●	●	●
LIFTING													
Integrated		●		●			●		●		●		
Separate accessories					●	●		●		●		●	●
PROTECTION IP													
Protection rating IP (IEC 60529)	65	65	65	65	64	64	64	64	64	64	64	54	54
DATA OUTPUT													
USB												●	●
M8													
OPEN													
Bluetooth®													
Binder capacitive					●	●	●	●	●	●	●		
Binder inductive	●	●	●	●									

* by accessories, see next pages

H

sylvac

	ABSOLUTE DIGITAL														LEVER PROBES			
	801-2012 P12D USB	801-2017 P12D USB LF	801-0012 P12D USBWORK	801-1212 P12D HR M8	801-1218 P12D HR M8 CF	801-2212 P12D M8	801-0212 P12D M8 WORK	801-0412 P12D OPEN	801-1225 P25D M8	801-1228 P25D USB	801-1229 P25D OPEN	801-1235 P25D M8 CF	801-1238 P25D USB CF	801-1626 P25D Smart	801-1636 P25D Smart CF	801-3012 LPD USB	801-3212 LPD M8	801-3412 LPD OPEN	801-3006 LPD Smart
	●	●	●	●	●	●	●	●											
									●	●	●	●	●	●	●				
																●	●	●	●
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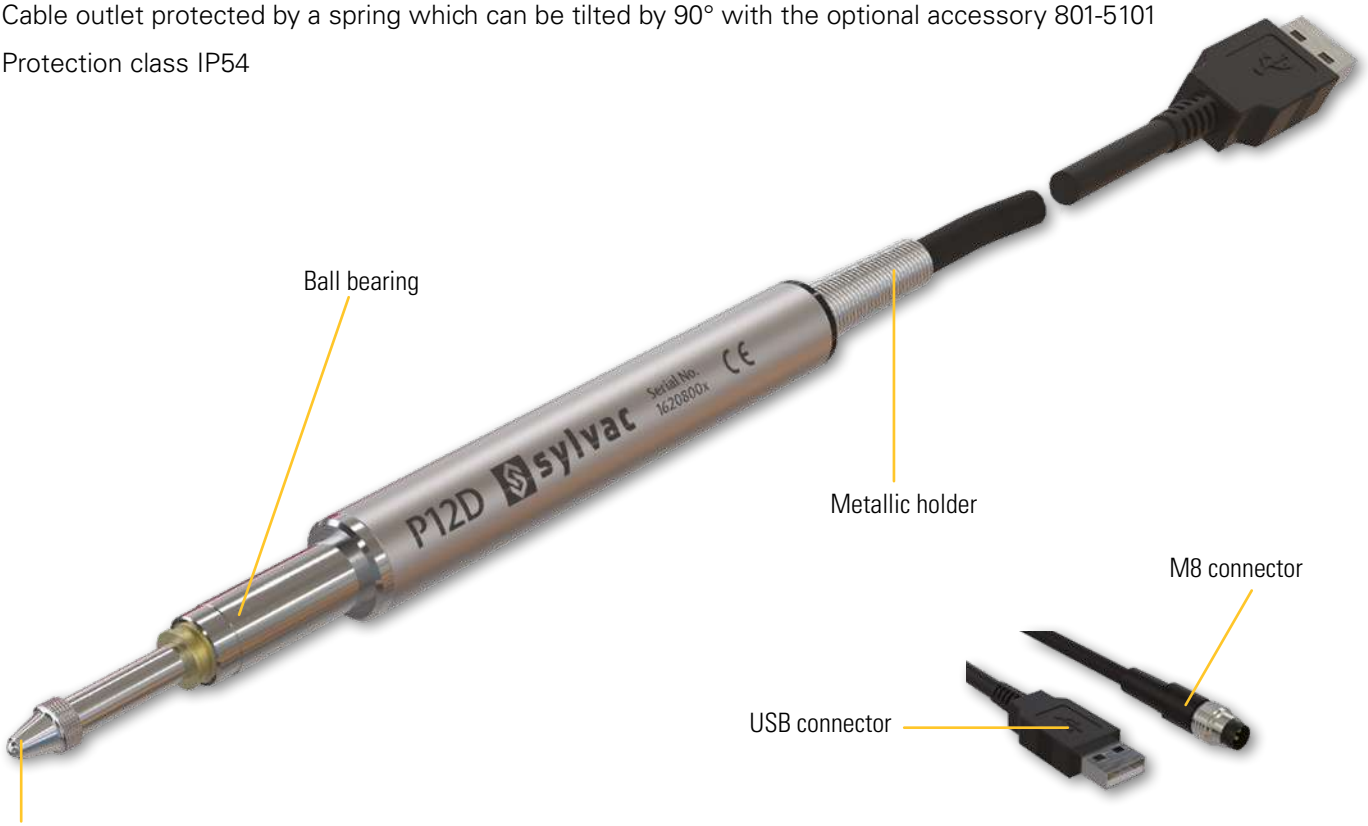
	●	●	●	●	●	●	●	●											
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54				
	●	●	●							●			●			●			
				●	●	●	●		●			●					●		
								●			●							●	
														●	●				●

H

Absolute digital measuring probes P12D

DESCRIPTION

- High-precision measuring probes with patented measuring system combining inductive and capacitive technologies
- Absolute system with integrated electronic error correction (no more pairing with the unit or computer) guaranteeing high accuracy over the entire measuring range
- Extremely robust ball bearing guide guarantees a minimum of 100 million cycles (30 millions with radial load)
- Stainless steel body Ø 12 mm, fixing diameter 8 h6
- Measuring range 12.7 mm
- Available in 3 versions: Standard, Work and Pro
- Measuring force selectable: low or very low for vertical use only
- Output signal in direct digital format without the need for a converter
- Reading speed up to 100 values per second depending on configuration
- Straight cable length 2m with either USB or M8 connector
- Cable outlet protected by a spring which can be tilted by 90° with the optional accessory 801-5101
- Protection class IP54

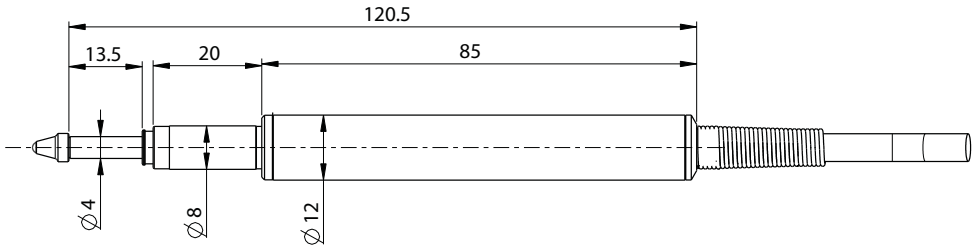


SWISS MADE

IP54

Absolute digital measuring probes P12D

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

PRO		**801-1012**	**801-1018**	**801-1212**	**801-1218**
Resolution type		High resolution			
Type		P12D HR USB	P12D HR USB CF [2]	P12D HR M8	P12D HR M8 CF [2]
Force [1]	N	0.2 - 0.3	0.08	0.2 - 0.3	0.08
Measuring range	mm	12.7			
Resolution	µm	0.01			
Max MPE Error	µm	0.6			
MPE_R Repeatability	µm	0.08			
Nb measures/s		up to 100/s, according to configuration [5]			
Output data		USB		M8	
Cable output		Straight			

STANDARD		**801-2012**	**801-2017**	**801-2212**
Resolution type		Standard		
Type		P12D USB	P12D USB LF [3]	P12D M8
Force [1]	N	0.4 - 0.8	0.2 - 0.3	0.4 - 0.8
Measuring range	mm	12.7		
Resolution	µm	0.1		
Max MPE Error	µm	1		
MPE_R Repeatability	µm	0.2		
Nb measures/s		up to 100/s, according to configuration [5]		
Output data		USB		M8
Cable output		Straight		

[1] ± 20%, vertical position
[2] CF = constant force : usable only vertically, rod pointing downwards (without spring)
[3] LF = low force
[4] depends on resolution and software
[5] depends on resolution and number of probes per bus

H

P12D - special version

P12D WORK

TECHNICAL SPECIFICATIONS

WORK		801-0212	801-0012
Resolution type		Standard	
Type		P12D WORK M8	P12D WORK USB
Force [1]	N	0.4 - 0.8	
Measuring range	mm	12.7	
Resolution	µm	0.1	
Max MPE Error	µm	1.8	
MPE_R Repeatability	µm	0.2	
Nb measures/s		up to 100/s, according to configuration [1]	
Output data		M8	USB
Cable output		Straight	

[1] depends on resolution and number of probes per bus

P12D - special version

P12D OPEN

DESCRIPTION

- Same specifications as P12D Work. In addition to this:
- Special execution with cable length 2 m. type «open connector» (4 coloured wires according to DIN 47100) for integration in machines or lines and communication with a PLC
- Output signal in direct digital format without the need for a converter.
- ASCII or ORBIT compatible communication protocol
- Resolution up to 0.0001 mm (0.1 µm), max. error 1.8 µm
- Measuring force 0.4 - 0.8 N

H

Connecteur OPEN

Absolute digital measuring probes P12D

TECHNICAL SPECIFICATIONS

OPEN		801-0412
Resolution type		Standard
Type		P12D OPEN
Force [1]	N	0.4 - 0.8
Measuring range	mm	12.7
Resolution	µm	0.1
Max MPE Error	µm	1.8
MPE_R Repeatability	µm	0.2
Nb measures/s		up to 100/s, according to configuration [1]
Output data		OPEN
Cable output		Straight

[1] depends on resolution and number of probes per bus

STANDARD DELIVERY

- Probe according to technical specifications
- Cable 2 m
- Stainless steel contact point with tungsten carbide ball Ø 2 mm
- Quickstart
- Calibration certificate

APPLICATIONS

Probe P12D USB connected to a PC, measures displayed by Sylcom.

Probe P12D USB connected to a D300S (maximum resolution 0.1µm)

Probes P12D M8 connected to a D62S.

Absolute digital measuring probes P25D

DESCRIPTION

- High-precision measuring probes with patented measuring system combining inductive and capacitive technologies
- Absolute system with integrated electronic error correction (no more pairing with the unit or computer) guaranteeing high accuracy over the entire measuring range
- Extremely robust ball bearing guide guarantees a minimum of 100 million cycles (30 millions with radial load)
- Stainless steel body Ø 15.5 mm, fixing diameter 8 h6
- Measuring range 25.4 mm
- Standard force 0.7 - 1.3N or constant 0.15N
- Output signal in direct digital format
- Reading speed up to 100 values per second depending on configuration
- Straight cable length 2m with either USB, M8 or OPEN connector
- Protection class IP51

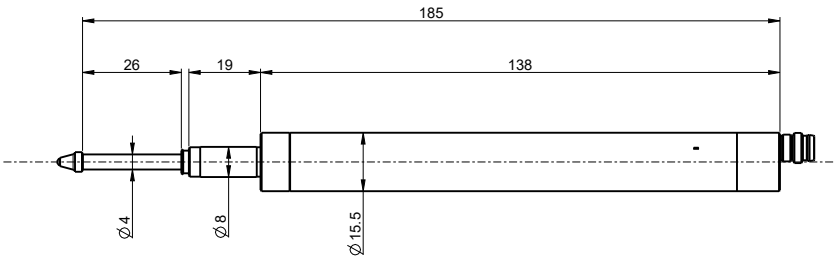
SWISS MADE

IP51

H

Absolute digital measuring probes P25D

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

		801-1225	801-1228	801-1229	801-1235	801-1238
Type		P25D M8	P25D USB	P25D OPEN	P25D M8 CF [2]	P25D USB CF [2]
Force [1]	N	0.7 - 1.3			0.15	
Measuring range	mm	25.4				
Resolution	µm	0.01				
Max MPE Error	µm	0.8				
MPE_R Repeatability	µm	0.08				
Nb measures/s		up to 100/s, according to configuration [3]				
Output data		M8	USB	OPEN	M8	USB
Protection		IP51				

[1] ± 20%, vertical position
[2] CF = constant force : usable only vertically, rod pointing downwards (without spring)
[3] depends on resolution and number of probes per bus

H

STANDARD DELIVERY

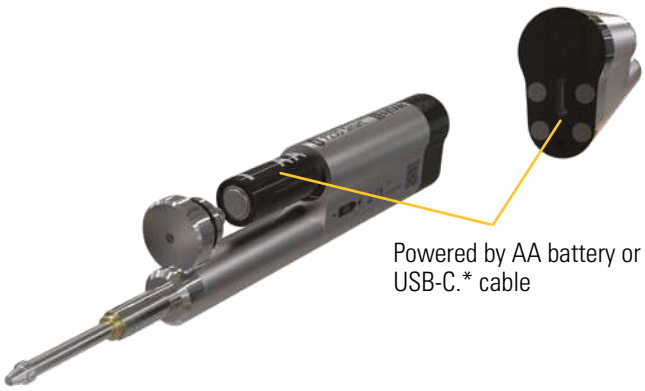
- Probe according to technical specifications
- Cable 2 m
- Stainless steel contact point with tungsten carbide ball Ø 2 mm
- Quickstart
- Calibration certificate

Absolute digital measuring probes P25D Smart

DESCRIPTION

- High-precision measuring probes with patented inductive measuring system
- Absolute system with electronic error correction guaranteeing high accuracy over the entire measuring range
- Extremely robust ball bearing guide guarantees a minimum of 100 million cycles (30 millions with radial load)
- Stainless steel body Ø 15.5 mm, fixing diameter 8 h6
- Measuring range 25.4 mm
- Standard force 0.7 - 1.3N or constant 0.15N
- Reading speed up to 100 values per second depending on configuration
- Protection class IP54

Measuring anvil
Interchangeable
contact point M2.5,
stainless steel with
TC ball



Powered by AA battery or
USB-C.* cable

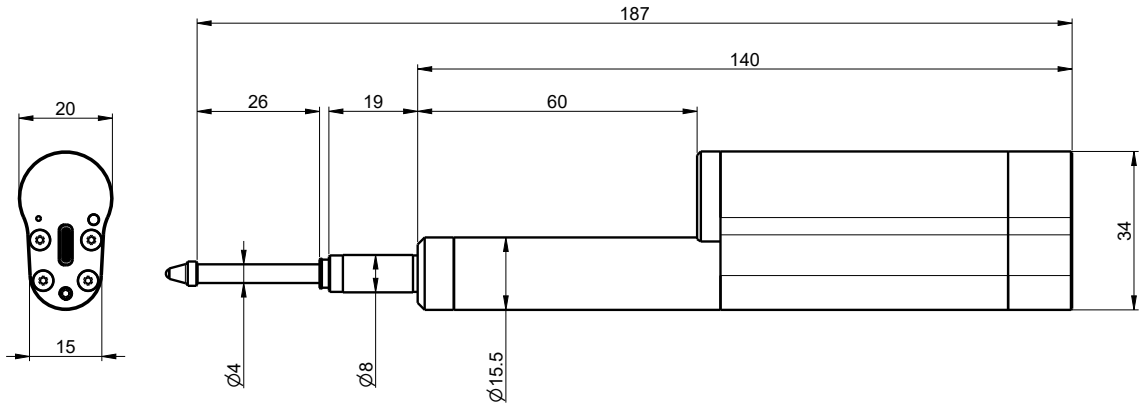
SWISS MADE

IP54

* The USB-C cable does not charge the probe, it only powers the probe.

Absolute digital measuring probes P25D Smart

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

		801-1626	801-1636
Type		P25D Smart	P25D Smart CF
Force [1]	N	0.6 - 1.2 [1]	0.15 [2]
Measuring range	mm	25.4	
Resolution	µm	0.01	
Max MPE Error	µm	0.8	
MPE_R Repeatability	µm	0.08	
Power supply		1.5V AA (LR06) battery (rechargeable 1.2V battery can be used) / 4.5 – 5.5V on USB-C port	
Output data		Bluetooth® wireless technology	
Protection		IP54	

[1] ± 20%, vertical position
[2] CF = constant force : usable only vertically, rod pointing downwards (without spring)

H

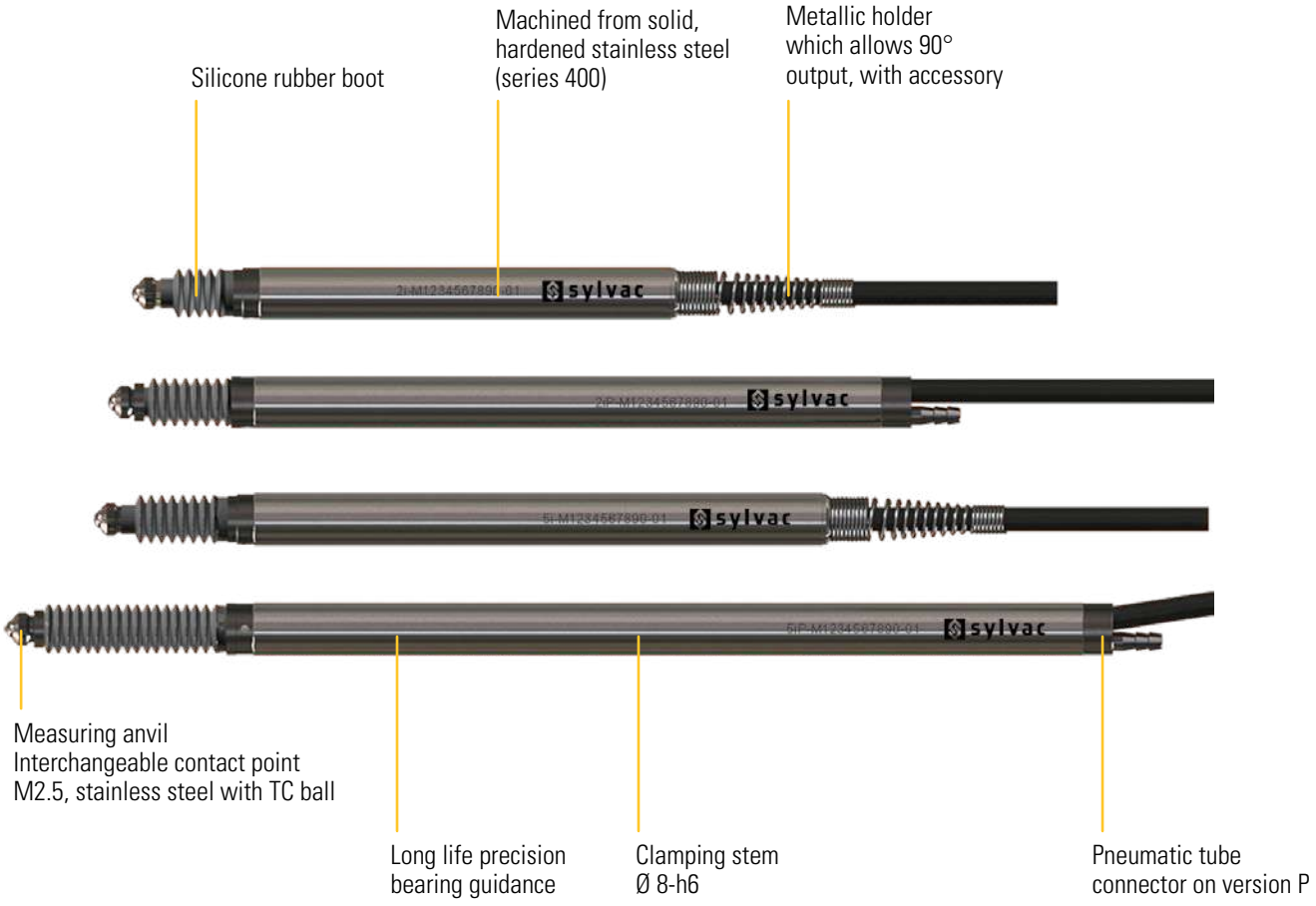
STANDARD DELIVERY

- Probe according to technical specifications
- Battery AA
- Stainless steel contact point with tungsten carbide ball Ø 2 mm
- Quickstart
- Calibration certificate

Inductive measuring probes

DESCRIPTION

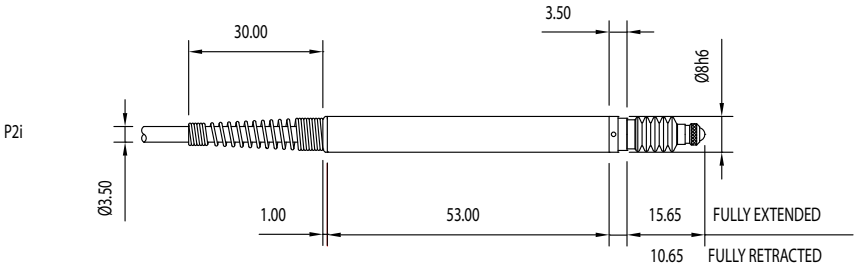
- Inductive pencil-type measuring probes with stainless steel body Ø 8 h6 over the entire length
- Particularly suitable for comparison measurements due to their excellent repeatability (0.15 µm)
- Half-Bridge Output Type
- Reading speed up to 3900 values per second, depending on configuration
- Extremely robust ball bearing guide guarantees a minimum of 10 million cycles when the probe is not subjected to a lateral force
- Available in 2 versions :
  - Spring pressure, measuring force 0.7 N
  - Pneumatic thrust, the probe is retracted when it is not supplied with air (1 to 3 bar), pressure influencing the measuring force (0.4-0.7 N)
- Measuring range +/- 2 mm and +/- 5 mm
- Resolution up to 0.0001 mm (0.1 µm)
- Cable outlet protected by a spring which can be tilted by 90° with the optional accessory 901-5110
- PUR cable length 2 m.
- IP65 protection with Viton® bellows

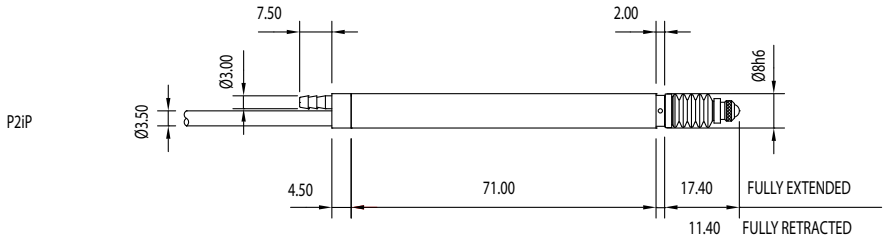


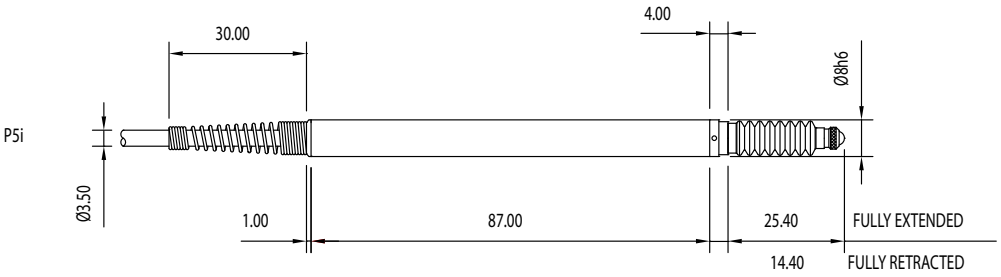
IP65

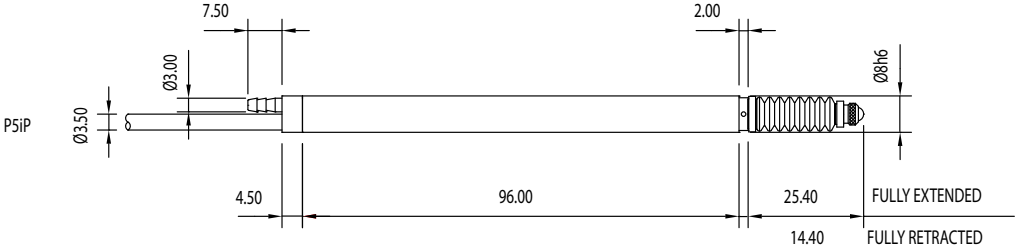
Inductive measuring probes

DIMENSIONAL DRAWINGS









H

Inductive measuring probes

TECHNICAL SPECIFICATIONS

		P2i	P2iP	P5i	P5iP
Travel	mm	±2	±2	±5	±5
Pre-travel	mm	0.15	0.8	0.15	0.3
Post-travel	mm	1.35	1.2	0.85	0.7
Resolution	µm	Digital : user selectable to <0.1um			
Repeatability MPE_R	µm	0.15	0.15	0.15	0.15
Moving mass	g	3.4	3.4	3.7	3.7
Accuracy of reading	%	0.5	0.5	0.5	0.5
Body diameter	mm	8h6			
IP rating		IP65			
Temperature	%FS/°C	0.01			

MEASURING FORCE

		P2i	P2iP	P5i	P5iP
Standard	N	0.7	0.7 / 0.4 bar - 2.6 / 1 bar	0.7	0.7 / 0.4 bar - 2.6 / 1 bar

Tolerance ± 20%, measuring probe in middle course, outgoing spindle.

PNEUMATIC PROBES

H

Pneumatic probes are fully retracted when they are not supplied with air. For continual reliable operation and to maximise working life, the air supply should be clean and dry. 60% maximum relative humidity, filtered to better than 2µm particle size. Air pressure : 0.4-0.8 bar, don't go over 0.8 Bar because the rubber boot can be damaged.

LIST OF REFERENCES

P2i				P5i			
P2i	900-1101	P2iP	900-1102	P5i	900-1111	P5iP	900-1112

P = pneumatic push

Inductive measuring probes

STANDARD DELIVERY

- Probe according to technical specifications
- Cable 2 m
- Stainless steel contact point with tungsten carbide ball Ø 3 mm (905-2204)
- Calibration certificate

APPLICATIONS

Inductives probes connected to a D70I.

Inductives and Solartron probes connected to a M-Bus modul coupled with D400S.

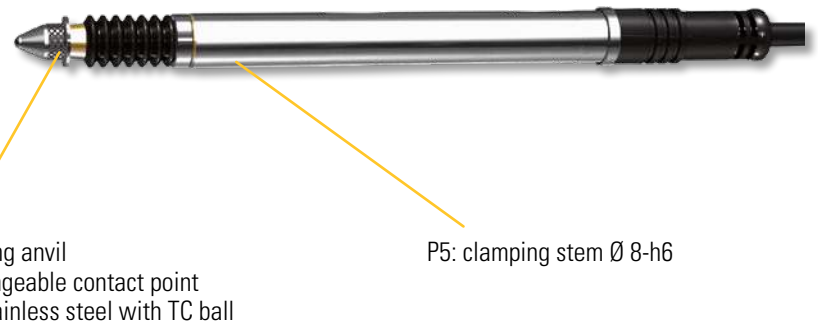
Probes connected to the D300S.

H

Capacitive measuring probes

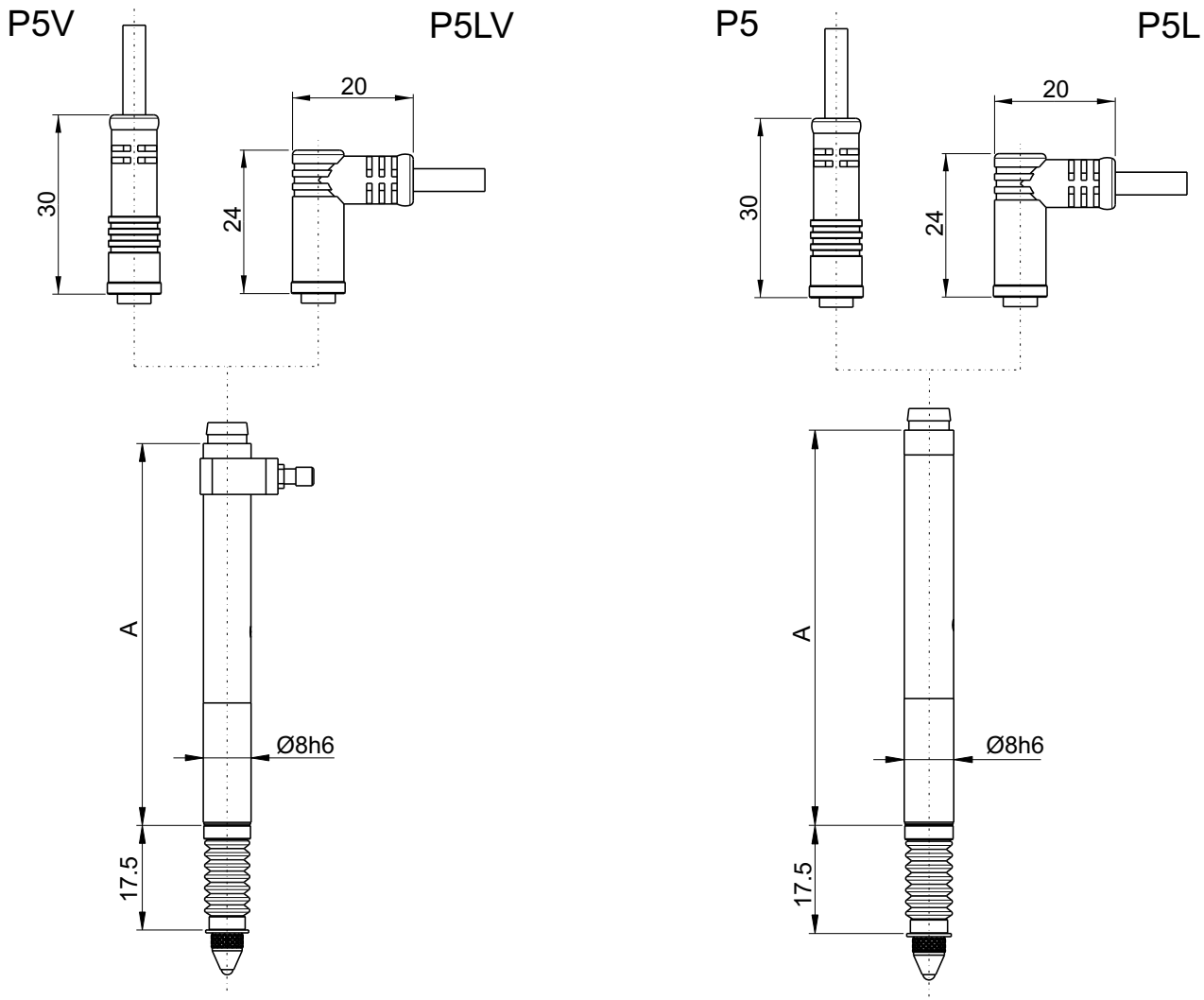
DESCRIPTION

- Capacitive measuring probes
- Measuring system for high accuracy over the entire measuring range
- Sliding bearing guide guarantees a minimum of 10 million cycles when the probe is not subjected to a lateral force. Not suitable for high load applications.
- Available in 2 versions :
  - Spring-loaded thrust
  - Spring-loaded with integrated vacuum lift (V-version)
- Measuring range 5mm
- Resolution up to 0.0001 mm (0.1 µm)
- Measuring force selectable, low, standard or high
- Fixing diameter 8 h6
- Straight or 90° cable outlet (L version)
- Interchangeable PUR cable length 1.5 m.
- IP54 protection with Viton® bellows (S version)



Capacitive measuring probes

DIMENSIONAL DRAWINGS



P5/P5L - P5V/P5LV

Guiding axis	Measure A
Plain bearing	64
Ball bearing	72

Capacitive measuring probes

TECHNICAL SPECIFICATIONS

		P5
Travel	mm	5
Pre-travel	mm	0.7
Max. MPE Error [1]	µm	1
Repeatability MPE_R	µm	0.2
Moving mass	g	3.7

[1] With Master unit. See as well the specifications of the pair Measuring probe/display unit.

MEASURING FORCE

		P5	P5B
Standard	N	0.50-0.90	0.50-0.90
Minimum	N	0.20-0.25*	0.25-0.50
Low	N	0.30-0.65	0.30-0.65
High	N	0.80-1.40	---

Tolerance ± 20%, measuring probe in vertical position, outgoing spindle.

* without rubber boot

LIST OF REFERENCES

H

P5			
P5	900-1001	P5BV	900-1005
P5BL	900-1002	P5L	900-1006
P5V	900-1003	P5BVL	900-1007
P5B	900-1004	P5LV	900-1008

B = ball bearing / V = Vacuum lifter / L = 90° cable / LF = low force / S = with rubber boot

STANDARD DELIVERY

- Probe according to technical specifications
- Calibration certificate
- Cable 1.5 m
- Stainless steel contact point with tungsten carbide ball Ø 2 mm (905-2204)

Capacitive measuring probes

APPLICATIONS

P5 probes connected to a D302 coupled with D300S for OD, concentricity and cylindricity measurements

P5 probes connected to a D50S unit measuring the external diameter of a shaft

Combined probes for the measurement of several heights

Capacitive probes connected to a D70S.

Capacitive probes connected to a D200S

Capacitive probes on a jig

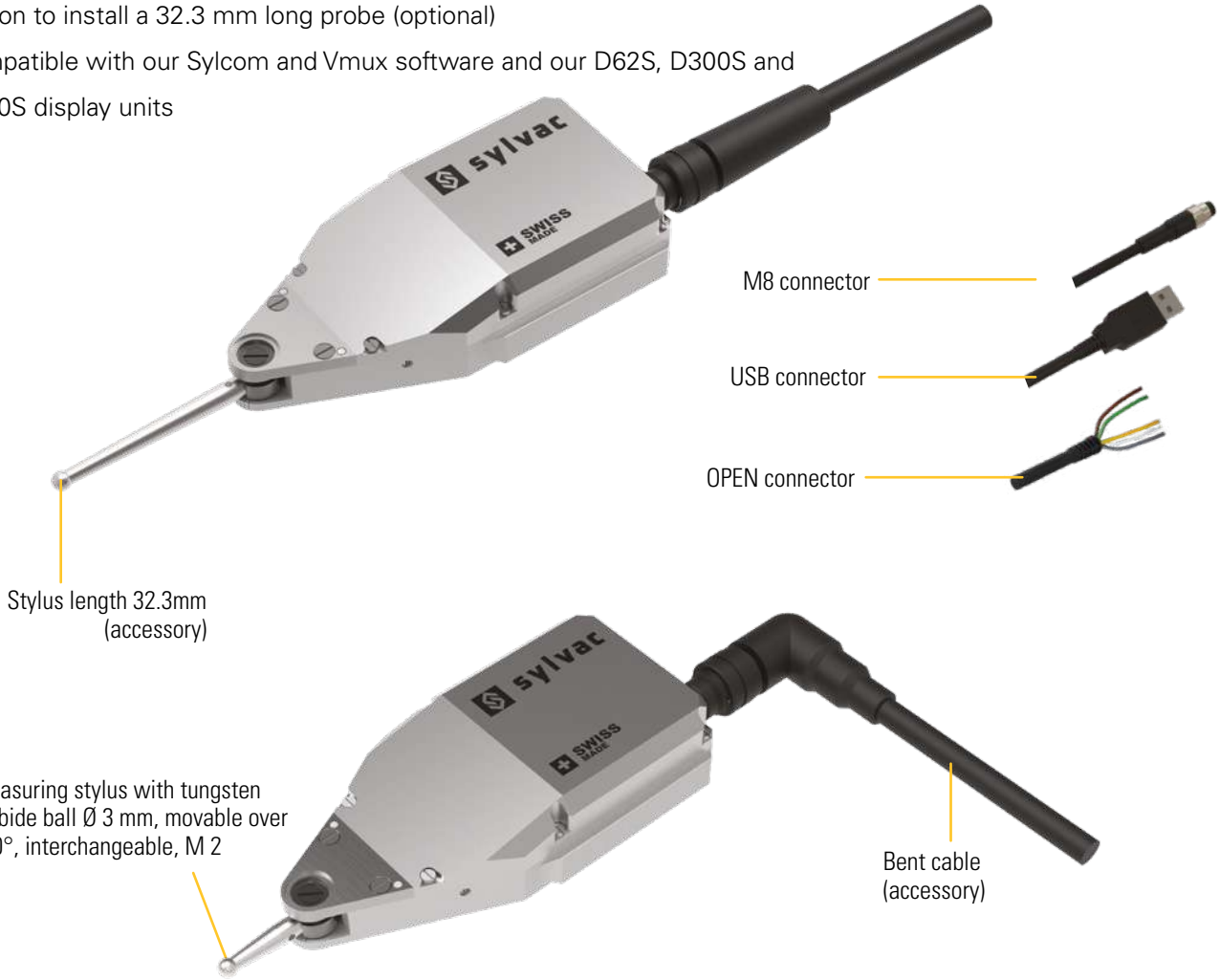
H

Lever probe

S_Probe LPD

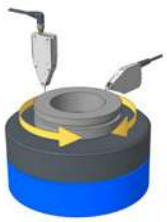
DESCRIPTION

- Lever probe with direct digital output
- Instrument for checking linear and circular geometry
- M2 stylus with Ø 3 mm tungsten carbide ball, swivelling and interchangeable
- Available in 3 versions :
  - Model with direct output USB
  - Model with direct output M8
  - Model with direct output OPEN
- Option to install a 32.3 mm long probe (optional)
- Compatible with our Sylcom and Vmux software and our D62S, D300S and D400S display units

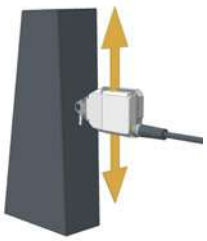


SWISS MADE

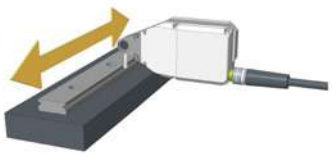
IP40



Circular geometry measurement on rotary table



Measuring linear geometry and perpendicularity



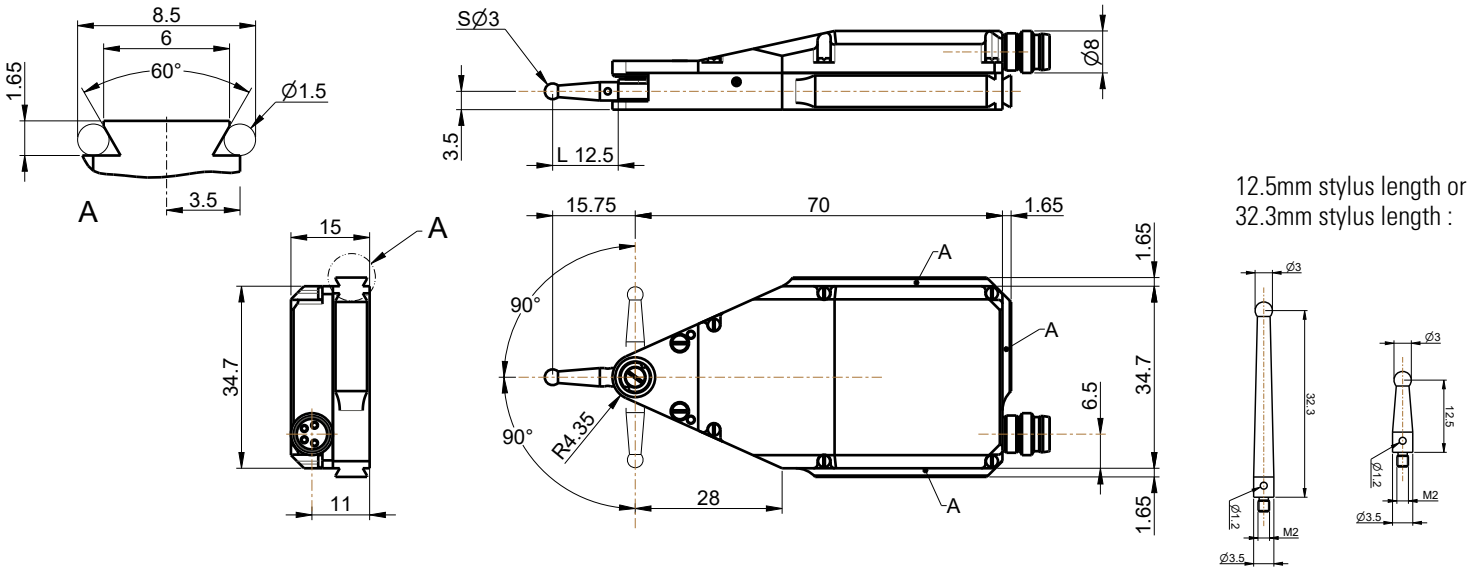
Linear geometry and parallelism measurement

H

Lever probe

S_Probe LPD

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

		801-3012	801-3212	801-3412
Type		LPD USB	LPD M8	LPD OPEN
Force	cN	4 - 19 cN ±20% / 2 - 9 cN ±20% [1]		
Measuring range	mm	± 0.6 / ±1.3 [1]		
Resolution	µm	0.01		
Stylus length	mm	12.5 / 32.3 [1]		
Max. MPE Error	µm	0.8 / 2 [1]		
Local max. Error	µm	0.3 / 0.7 [1] [2]		
Repeatability MPE_R	µm	0.07 / 0.15 [1]		
Max. hysteresis MPE_H	µm	0.5 / 1 [1]		
Weight	g	92 [3]		
Protection		IP40		
Output data		USB	M8	OPEN

[1] with stylus 32.3mm, reference 801-8004, option
[2] max. local error over 50 µm, unidirectional
[3] cable-free instrument

STANDARD DELIVERY

- Instrument according to technical specifications
- Straight cable, length 2m, output type according to model
- Quickstart
- Clamping stem Ø 8 mm (801-8002)
- 1 contact point M2, with MD ball Ø3, length 12.5mm
- Calibration certificate

H

Lever probe

S_Probe LPD Smart

DESCRIPTION

- Lever probe with Bluetooth® technology integrated
- Unique on the market !
- Instrument for checking linear and circular geometry
- M2 stylus with Ø 3 mm tungsten carbide ball, swivelling and interchangeable
- Powered by CR2477 lithium battery
- Option to install a 32.3 mm long probe (optional)
- Compatible with our Sylcom and Vmux software and our D62S*, D300S and D400S* display units

SWISS MADE

IP40

Circular geometry and location measurement on lathe counter-spindle

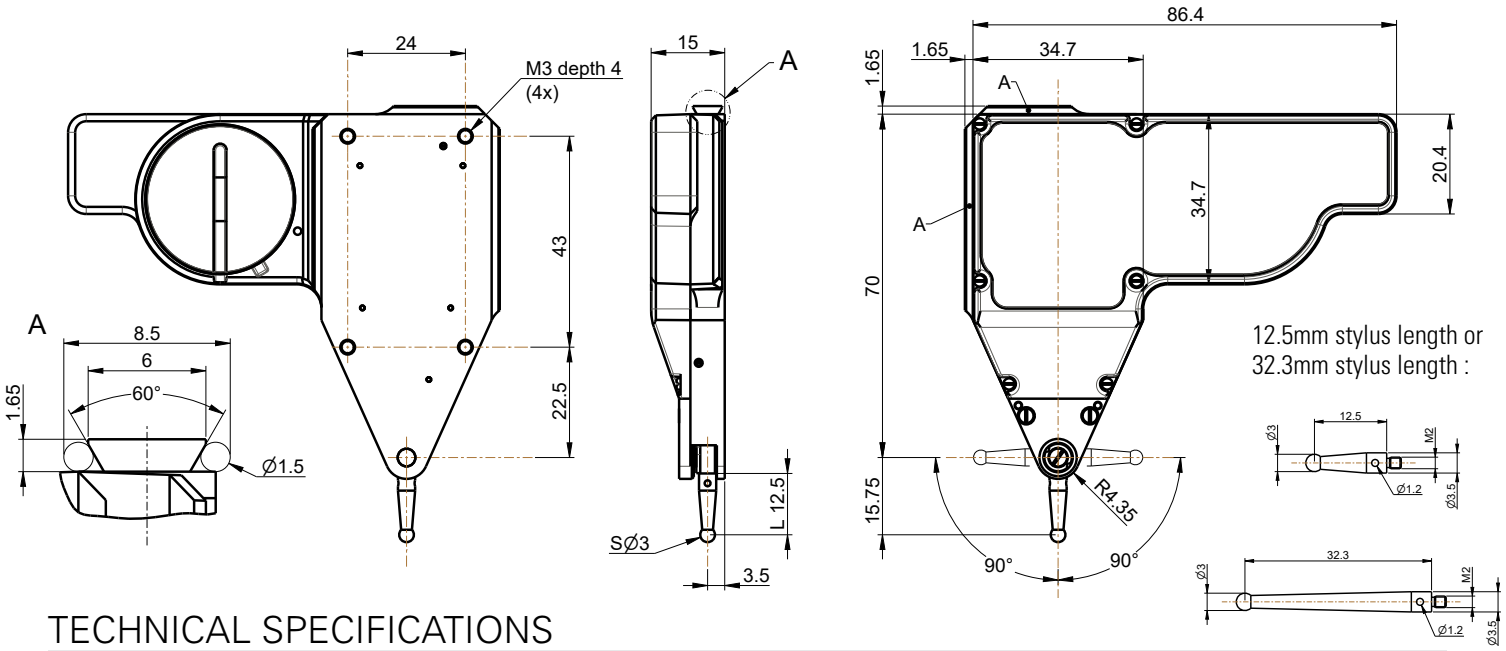
Circular geometry measurement and localization on milling machines

H

Lever probe

S_Probe LPD Smart

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

		801-3006
Type		LPD Smart
Force	cN	4 - 19 cN ±20% / 2 - 9 cN ±20% [1]
Measuring range	mm	± 0.6 / ±1.3 [1]
Resolution	µm	0.01
Stylus length	mm	12.5 / 32.3 [1]
Max. MPE Error	µm	0.8 / 2 [1]
Local max. Error	µm	0.3 / 0.7 [1] [2]
Repeatability MPE_R	µm	0.07 / 0.15 [1]
Max. hysteresis MPE_H	µm	0.5 / 1 [1]
Weight	g	112
Protection		IP40
Output data		Bluetooth® wireless technology

[1] with stylus 32.3mm, reference 801-8004, option
[2] max. local error over 50 µm, unidirectional

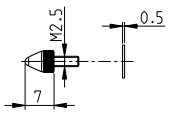
STANDARD DELIVERY

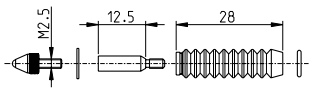
- Instrument according to technical specifications
- Lithium battery CR2477 included
- Quickstart
- Clamping stem Ø 8 mm (801-8002)
- 1 contact point M2, with MD ball Ø3, length 12.5mm
- Calibration certificate

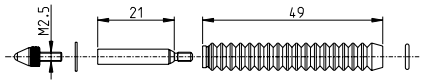
H

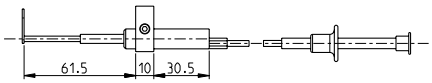
Measuring probes

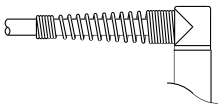
ACCESSORIES

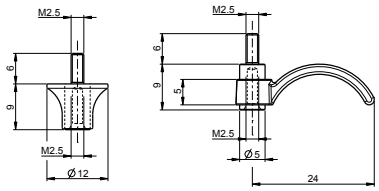


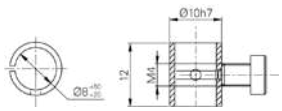


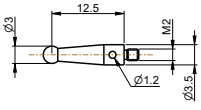


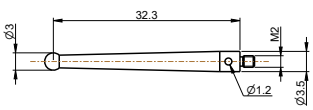










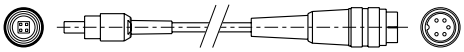
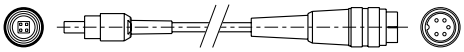
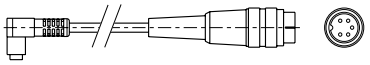
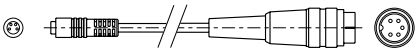
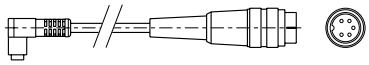
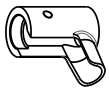
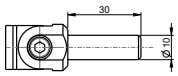
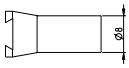
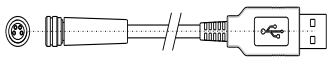
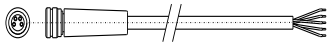
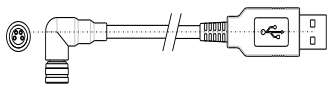
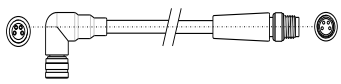
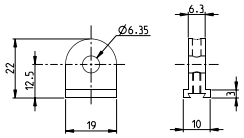


		P2i	P2iP	P5i	P5iP	P2	P5	P10	P25	P12D	P25D	LPD	
905-2204	Stainless steel contact point M2.5 with TC ball probe (other contact points, see chapter digital indicators)						●	●	●	●	●	●	
901-2003	Rubber boot and contact point set								●				
901-2004	Rubber boot and contact point set									●			
901-2005	Lifting device with photo-cable								●	●	●	●	
901-2012	Tube Ø 4 mm / 2 mm, Length to be specified							●	●	●			
901-2013	Tube Ø 6 mm / 4 mm, Length to be specified							●	●	●			
901-2014	Double tube diameter 2 x 4 mm /2 mm, Length to be specified							●	●	●			
901-5110	Bridle 90°		●		●								
905-2225	Plastic lifting ring (bottom)		●	●	●	●	●	●	●	●	●	●	
905-2224	Plastic lifting lever (bottom)		●	●	●	●	●	●	●	●	●	●	
905-2231	Sleeve Ø8 -->10mm with locking screw		●	●	●	●	●	●	●	●	●	●	
801-8003	Stylus M2 Ø3mm, length 12.5mm												●
801-8004	Stylus M2 Ø3mm, length 32.3mm												●

H

Measuring probes

ACCESSORIES

		P2i	P2iP	P5i	P5iP	P2	P5	P10	P25	P12D	P25D	LPD
	**901-5002**	Cable 1.5 m							●				
	**901-5012**	Cable 1.5 m								●			
	**901-5032**	Cable 1.5 m bent							●				
	**901-5042**	Cable 1.5 m						●					
	**901-5052**	Cable 1.5 m bent						●					
	**801-5101**	Bridle 90°									●		
	801-5202	2m extension for probe M8								●	●	●*	
	801-5210	10m extension for probe M8								●	●	●*	
	**801-8001**	Articulated clamping stem Ø10mm										●	
	**801-8002**	Clamping stem Ø8mm										●	
	**C310-510-200**	Cable 2m USB									●	●*	
	**C310-510-300**	Cable 2m OPEN									●	●*	
	C310-510-100	Cable 2m M8 female to M8 male									●	●*	
	**C310-510-500**	Bent cable 2m M8 to USB									●	●*	
	**C310-510-600**	Bent cable 2m M8 female to M8 male									●	●*	
	**905-4211**	Center lug back										●	

* for wired model only

H

Digital display

TABLE OF CORRESPONDENCES

		D50S	D50S PRO	D62S	D62S Adv.	D70S	D70H
Direct input	Probes	2 c)	2 c)	2 a)	2 a)	2 c)	2 H)
	RS/USB instruments						
	External contact	1	1	1	2	1 p)	1 p)
	Mbus						●
	Air gages						
	Instrument with Bluetooth® technology						
Additional input	Probes						
	USB instruments						
	Analog display			●	●	●	●
Output	RS 232	●	●	●	●	●	●
	RS 485						
	USB			● 10)	● 10)	● 10)	● 10)
	Opto-coupled output						
	Analogic						
	Bluetooth® technology (slave)				●		
Functions	Direct zero setting	●	●	●	●	●	●
	Direct zero setting per channel	●	●	●	●	●	●
	Selection of resolution	●	●	●	●	●	●
	Selection of measuring direction	●	●	●	●	●	●
	PRESET	●	●	●	●	●	●
	Tolerance indicators			●	●	●	●
	Classification (max 8 classes)				●	● 11)	● 11)
	Min, Max, Delta				●	●	●
	A ± B (predifined functions)	●	●	●	●	●	●
	Mathematics functions				●		
	Scanning of the channels					●	●
	Histogram						
	Statistics						
	Memorization				●		
	Simultaneous display of the channels			●	●	●	●
	Dynamic measurement				●	●	●
	Calibration (max. 25 points)		●			●	
	Time and date display				●		
	Battery				●		

1) with unit (s) additional (s) D108
2) with 3 D200S units
3) 32 probes with units D200S or maximum 32 with D302 / D304 or M-Bus
4) with USB-Hub powered
6) with module MB-IO
7) with dongle Smart for D300S & MB-BT for D400S
8) A± B± C± D±, depending on model
9) Maximum 99 instruments on D400S through M-BUS (MB-4D digimatic)
10) Mini-USB

H

Digital display

TABLE OF CORRESPONDENCES

D70I	D70A	D200S	D300S *)	D302	D302 a	D304	D304 a	D400S
2 i)		8 c)	2 (4) c)	2 c)	2 c)	4 c)	4 c)	
			1 / 6					
1 p)	1 p)	1	2	1	1	1	1	1
●	●							●
	2							
			● 7)					● 7)
		24 2)	32 3)					99 9)
			6 4)					99 9)
●	●							●
●	●	●	●					●
				●	●	●	●	
● 10)	● 10)	●	●	●	●	●	●	●
		●	●					● 6)
					●		●	
●	●	●	●					●
●	●	●	●					●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●					●
● 11)	● 11)		●					● 11)
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●			● 12)
		●	●			● 8)	● 8)	●
●	●		●					●
			●					●
			●					●
		●	●					●
●	●	●	●					●
●	●	●						●
●		●	●	●	●	●	●	●
			●					

11) Up to 16 classes for 1 channel only

p) Binder 3 poles for D70S and D62S or Jack for D70H, D70A and D70I

c) capacitive, H) Heidenhain, i) inductive, a) absolute digital

* Maximum 62 mixed on the D300S instruments

12) Model 2018

H

Digital display D50S

DESCRIPTION

- Compact and simple display units for capacitive measuring probes
- Large, bright display
- 2 probe inputs :
  - display of channel 1 value
  - display of channel 2 value
  - display of the combined value of channel 1 - or + that of channel 2
- Resolution up to 0.0001 mm (0.1 µm)
- Available in 2 versions :
  - D50S Standard
  - D50S Pro to pair a probe by entering a point-by-point correction (up to 25 points) in order to increase the accuracy of the whole system.
- Connector for optional pedal 904-4101
- RS232 data output
- IP54 liquid-proof front panel for workshop use

Combination of channels A+B; A-B

Resolution up to 0.0001 mm

Great clear and luminous display

Direct functions

Feet

H

Output cable RS232 to USB (925-1142), RS232 (925-5609) or Digimatic (926-8116)

IP40

SWISS MADE

RS232

D50S PRO

Correction of linearity. Higher precision

Digital display D50S

DISPLAY

1. **Conversion mm/inch**
2. **Selection of resolution**
3. **Selection of measuring direction**
4. **REL and ABS measurement**
5. **PRESET function**
6. **Data sending**
7. **Selection of measuring mode: channel 1 ; channel 2 ; channel 1-2 ; channel 1+2**
8. **Probe inputs**
9. **Power supply connection**
10. **External contact connection**
11. **RS232 input/output**

TECHNICAL SPECIFICATIONS

		804-1050	804-1060
Type		D50S	D50S PRO
Max. MPE Error [1]	µm	P5 : 1.6 / P10 : 1.6 / P25 : 1.9	P5 : 0.6 / P10 : 0.6 / P25 : 0.8
Repeatability MPE_R	µm	P5 : 0.2 / P10 : 0.2 / P25 : 0.2	P5 : 0.2 / P10 : 0.2 / P25 : 0.2
Overall dimensions	mm	180 x 75 x 50	180 x 75 x 50
Weight	kg	0.3	0.3
Case		Terblend Plastic	Terblend Plastic
Protection according to IEC 60529		IP40	IP40
Output data		RS232 / USB / Digimatic [2]	RS232 / USB / Digimatic [2]
Programmable by PC		•	•

[1] Max error on D50S PRO paired with a probe
[2] see cable chapter

STANDARD DELIVERY

- Unit according to technical specifications
- Feet (pair)
- Charging unit according to country (904-4200)
- Instruction manual

H

Digital display D50S

APPLICATIONS

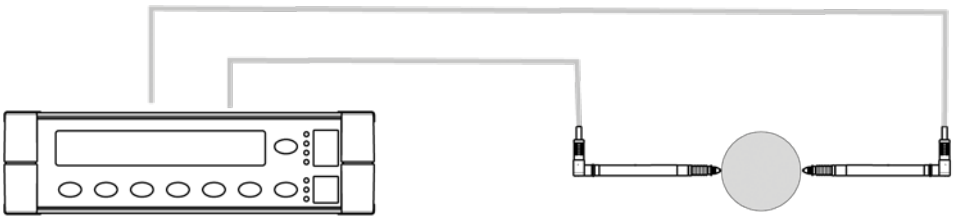
Measuring a shaft with 2 probes (A+B)

PS15 with connected to a D50S

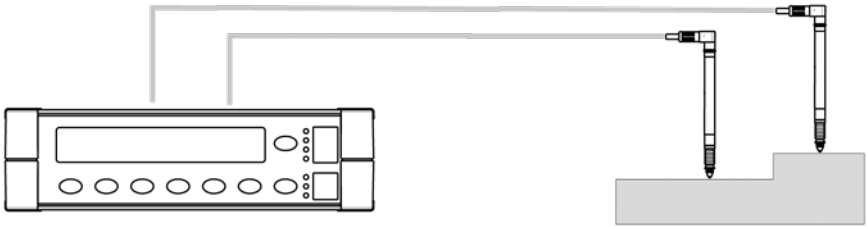
Simple measurement with one probe

COMBINATIONS OF PROBES

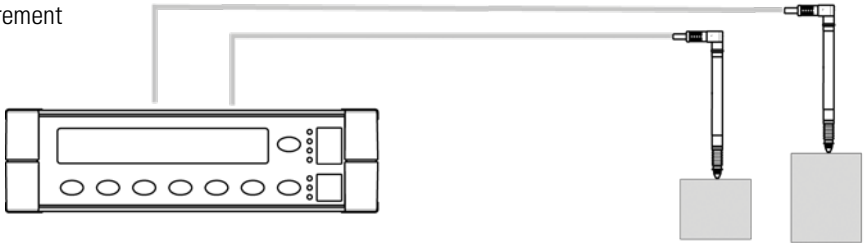
Diameter = 1+2



Difference = 1-2



Individual measurement



Digital display D50S

POSSIBILITIES OF CONNECTION

MAX. 2

2x

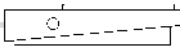
P2...P25

H

RS232C

PROBE

SW1



Digital display D62S

DESCRIPTION

- New table display unit for digital P12D measuring probes
- Shockproof construction
- 2 inputs with connectors type M8 :
  - display of channel 1 value
  - display of channel 2 value
  - display of the combined value of channel 1 - or + that of channel 2
  - Automatic detection and display of the channel used
- Large 4.3" colour touch screen with intuitive functions
- Resolution up to 0.00001 mm (0.01 µm)
- Central button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA
- Connector for optional pedal 904-4101
- USB and RS232 data outputs
- IP54 liquid-proof front panel for workshop use
- Advanced version with battery, Bluetooth® system and tolerance status indication via integrated LED bar

Built-in Bluetooth®

IP54 (front face)

mini-USB

RS232

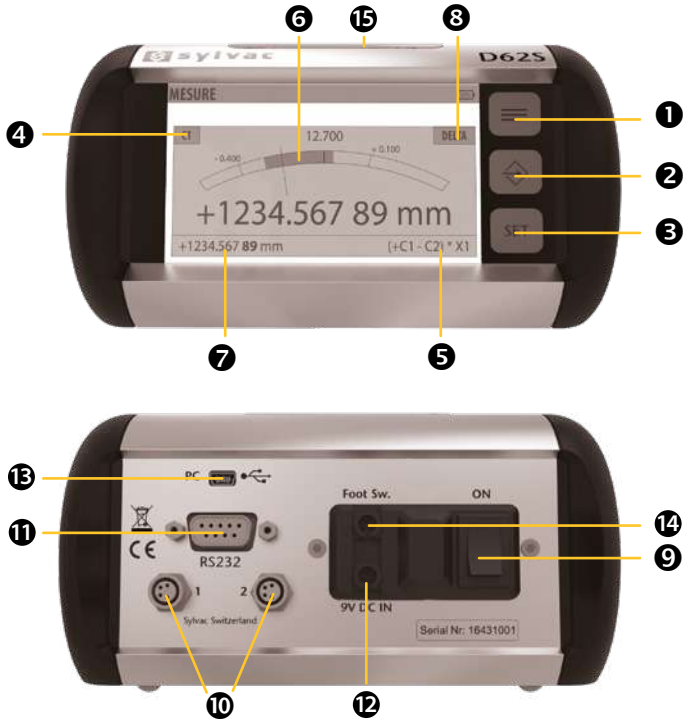
Output cable RS232 to RS232 (926-5609) or USB (925-1142) or output cable mini-USB sur USB (926-6001)

H

Digital display D62S

DISPLAY

1. **Menu display**
2. **Favourite key**
3. **SET**
4. **Selection of channels**
5. **Formula** [1]
6. **Analog display**
7. **Current value, mode MIN/MAX/DELTA** [1]
8. **Measuring mode MIN/MAX/DELTA** [1]
9. **ON/OFF switch**
10. **Probe inputs (M8 - P12D)**
11. **RS232 inputs/outputs**
12. **Power-supply**
13. **mini/USB Device (PC connection)**
14. **Footswitch input**
15. **Light indicator of the global tolerances** [1]



[1] only on Advanced model

TECHNICAL SPECIFICATIONS

		804-1062	804-1063
Model		D62S	D62S Advanced
Inputs		2x M8 for Sylvac absolute digital probes	
Resolution	µm	0.01	
Max. MPE error	µm	according to probe specifications	
Repeatability MPE_R	µm	P12D HR : 0.08	
Overall dimensions	mm	170 x 90 x90	
Weight	g	613	665
Case		Aluminium and thermoplastic elastomer	
Protection according to IEC 60529		IP40 (Front face : IP65)	
Output data		USB (Device) [1], RS232	Bluetooth® wireless technology, RS232, USB (Device) [1]
Indicator of the global tolerance			•
Battery			•
Time and date display (RTC)			•

[1] see cables chapter

H

Digital display D62S

STANDARD DELIVERY

- Unit according to technical specifications
- Charging unit according to country (904-4200)
- Instruction manual

APPLICATIONS

Probes P12D connected to a D62S.

D62S Advanced sending data on the Sylvac Anywhere App for smartphones.

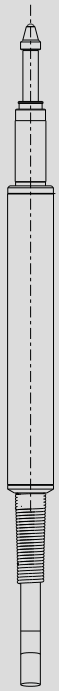
H

Digital display D62S

POSSIBILITIES OF CONNECTION

MAX. 2

2x



P12D (M8)

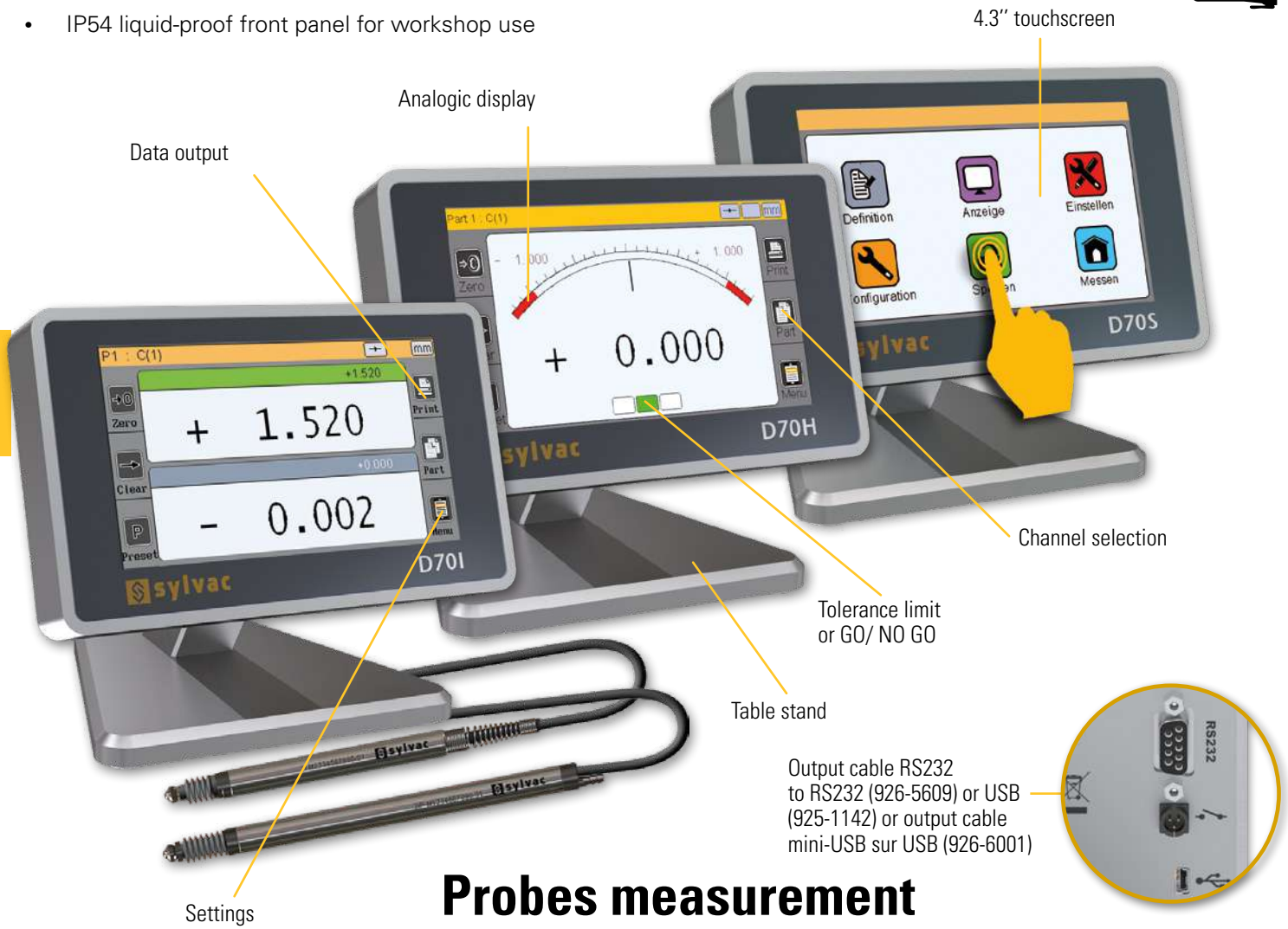
Digital display D70S/H/I

DESCRIPTION

- Compact display units for measuring probes
- Extremely robust aluminium housing
- Available in 3 versions with 2 probe inputs :
  - D70H = for HEIDENHAIN touch probes type ST/MT
  - D70I = for SYLVAC inductive probes
  - D70S = for SYLVAC capacitive probes
- Large 4.3" colour touch screen with intuitive functions
- Display in different modes (possibility to display the 2 values simultaneously)
- Resolution up to 0.0001 mm (0.1 µm) and 0.00001 mm (0.01 µm) for version D70H
- Extensive choice of functions including MIN/MAX/DELTA and channel combinations
- Connector for optional pedal 904-4101 (D70S) and 904-4102 (D70H and D70I)
- Powered by USB cable, the unit is detected as an «external keyboard» when connected to the computer, allowing for easy data transfer.
- USB and RS232 data outputs
- Connector for Mbus
- IP54 liquid-proof front panel for workshop use

mini-USB

RS232



H

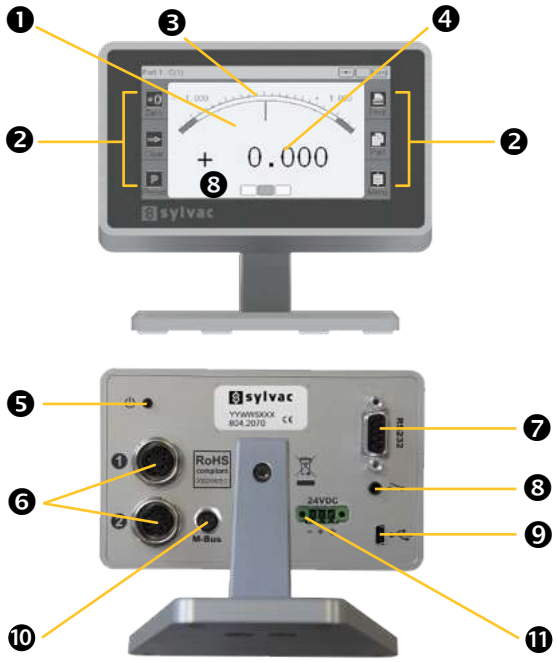
Probes measurement

Digital display

D70S/H/I

DISPLAY

1. **4.3" Touchscreen display**
2. **User friendly interface**
3. **Analogic display**
4. **Digital display**
5. **ON/OFF**
6. **2 Capacitive / Inductive / 1VPP probes input (depending model)**
7. **RS232 output**
8. **1 external contact**
9. **Mini-usb and and supply/data**
10. **Input M-Bus / M8 (depending model)**
11. **Power-supply 24VDC (depending on model)**



TECHNICAL SPECIFICATIONS

		804-2070
Type		D70S
Max. MPE error	µm	P5 : 1.6 / P10 : 1.6 / P25 : 1.9
Overall dimensions	mm	140x105x111
Weight	kg	0.6
Case		Aluminium
Protection according to IEC 60529		IP65
Output data		USB / RS232
Probes		Sylvac Capacitive probes
Programmable by PC		●

		804-2072
Type*		D70H
Overall dimensions	mm	140x105x111
Weight	kg	0.6
Case		Aluminium
Protection according to IEC 60529		IP65
Output data		USB / RS232 (1x1)
Probes		Heidenhain ST/MT probes (Mitutoyo & Magescale with adapter) / P12D, P25D (M-Bus)
Programmable by PC		●

* Not available in Switzerland

H

Digital display D70S/H/I

TECHNICAL SPECIFICATIONS

		804-2071
Type		D70I
Overall dimensions	mm	140x105x111
Weight	kg	0.6
Case		Aluminium
Protection according to IEC 60529		IP40
Output data		USB / RS232 (1x1)
Probes		Sylvac Inductive probes (Tesa & Mahr* compatible) / P12D, P25D (M-Bus)
Programmable by PC		●

* Mahr probes : only probes compatible Tesa

D70S : Capacitive probes

D70I : Inductive probes

D70H : Heidenhain probes

APPLICATIONS

D70S with capacitive Sylvac probes

D70H with Heidenhain probes

D70I with inductive probes

STANDARD DELIVERY

- Unit according to technical specifications
- Table base
- Charging unit
- Instruction manual

Digital display D70S/H/I

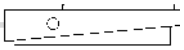
POSSIBILITIES OF CONNECTION

MAX.2	MAX.2	MAX.2 MAX. 1 or 2
P10 P25 ... 	Heidenhain Spectro I2 / 30 MT I2/25 60/100 Certo ... 	P2i P5i Tesa GT21 ...
D70S	D70H	D70I

USB /RS232C

PROBES

SW1



H

Digital display D70A

DESCRIPTION

- Compact display units for air measurement equipped with a digital pressure sensor acting as a converter to convert a pressure value into a highly accurate dimensional value.
- Available in 2 versions :
  - D70A1 with one air inlet
  - D70A2 with two air inlets
- Features similar to the other D70 units, but with some special features specific to air measurement:
  - Each inlet is equipped with a throttle to define the volume of air entering the unit according to the specificities of the connected air buffer.
  - Calibration of the unit with 2 or 3 standards
  - Possibility to activate an alarm in case of a change in supply pressure or a change in temperature
  - Unit fully configurable by QR code
- Display resolution up to 0.00001 mm (0.01 µm)
- Requires no maintenance or calibration
- Compatible with all brands of air pads
- Delivered with a set of 6 different choke valves.
- Connector for M-BUS modules
- IP54 liquid-proof front panel for workshop use

Air measurement

* plug and air gages available on request

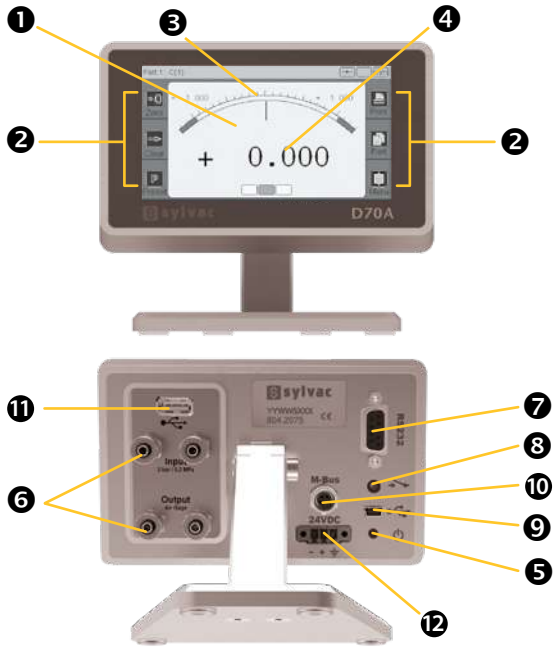
Output cable RS232 to RS232 (926-5609) or USB (925-1142)
or output cable mini-USB sur USB (926-6001)

H

Digital display D70A

DISPLAY

- ❶ **4.3" Touchscreen display**
- ❷ **User friendly interface**
- ❸ **Analogic display**
- ❹ **Digital display**
- ❺ **ON/OFF**
- ❻ **1 or 2 air gages inputs (depending model)**
- ❼ **RS232 output**
- ❽ **1 external contact**
- ❾ **Mini-usb and and supply/data**
- ❿ **M-Bus Input**
- ⓫ **USB key input**
- ⓬ **Power-supply 24VDC**



TECHNICAL SPECIFICATIONS

		804-2074
Type		D70A - 1 input
Overall dimensions	mm	140x105x111
Weight	kg	0.6
Case		Aluminium
Protection according to IEC 60529		IP65
Output data		USB / RS232
Instruments		Plug gages and air gages / P12D, P25D (M-Bus)
Programmable by PC		●

		804-2075
Type		D70A - 2 inputs
Overall dimensions	mm	140x105x111
Weight	kg	0.6
Case		Aluminium
Protection according to IEC 60529		IP65
Output data		USB / RS232 (1x1)
Instruments		Plug gages and air gages / P12D, P25D (M-Bus)
Programmable by PC		●

Digital display D70A

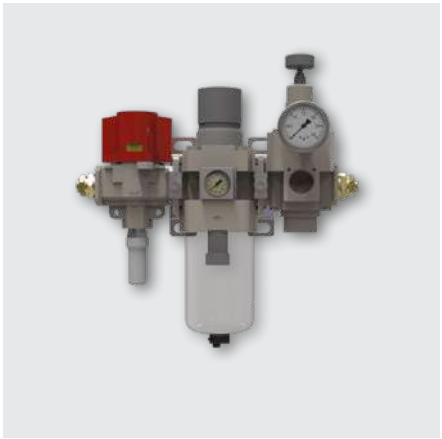
TECHNICAL SPECIFICATIONS

D70A - 1 input

D70A - 2 inputs

APPLICATIONS AND ACCESSORIES

D70A with air and plug gauges



Air kit for D70A (804-2203)

D70A with accessory 804-2202 (panel mounting)

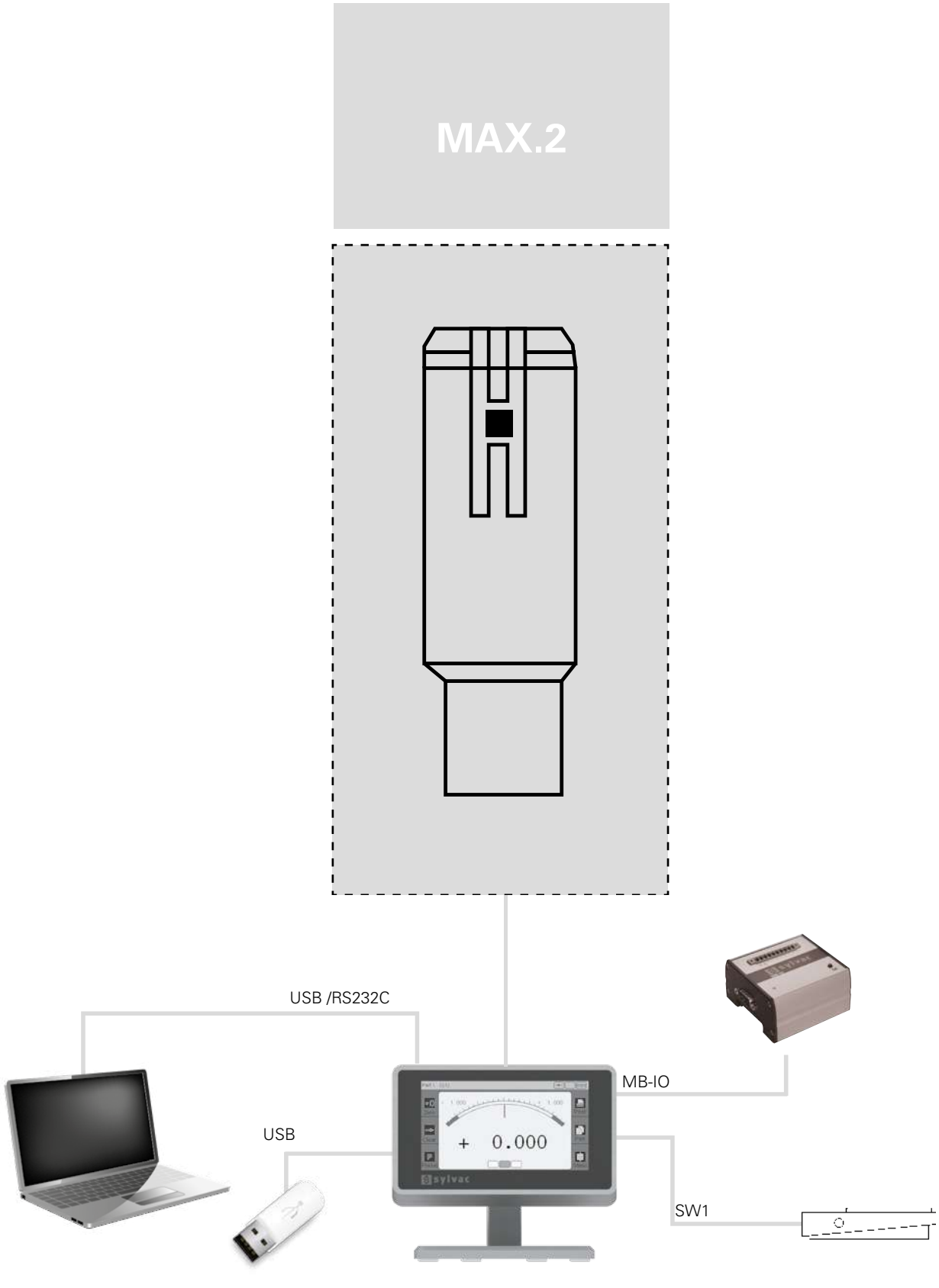
STANDARD DELIVERY

- Unit according to technical specifications
- Table base
- Charging unit
- Instruction manual
- 2 additional sets of restrictors

H

Digital display D70A

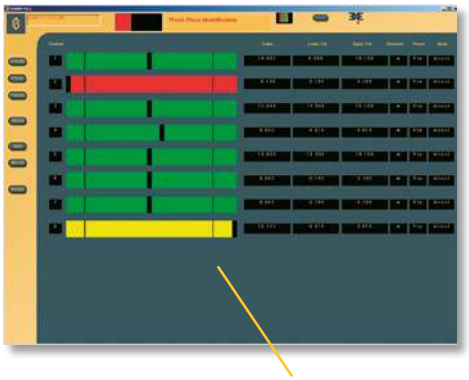
POSSIBILITIES OF CONNECTION



Multiplexer unit D200S

DESCRIPTION

- Unit for connecting up to 8 SYLVAC capacitive probes and visualising the results on a PC (software included) or exporting the data.
- Housing made of aluminium profile and ABS plastic that can be placed vertically or horizontally
- 8 inputs for capacitive sensors P5, P10 and P25
- I/O terminal block with opto-coupled inputs/outputs
- Free software to view up to 24 channels simultaneously, create channel combinations, perform dynamic measurements or create sequences.
- Up to 3 units can be connected to the software, so that up to 24 probe inputs can be used.
- Possibility to connect a D110V unit for lifting the vacuum probes
- 2 connectors for optional pedal 904-4101
- USB and RS232 data outputs
- IP50 protection



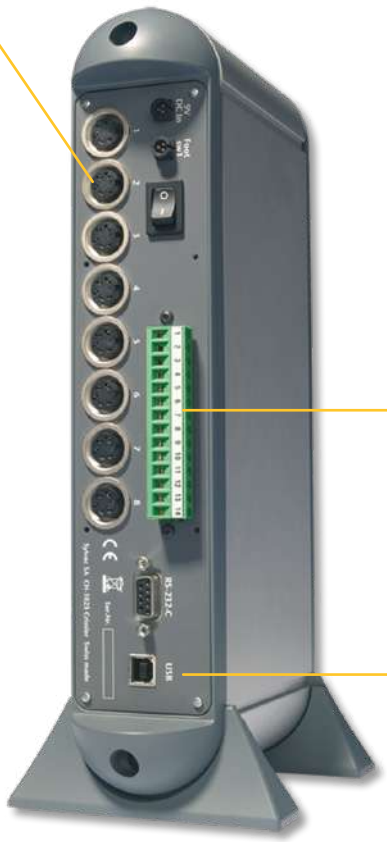
Software allowing the treatment of up to 24 channels simultaneously (bargraph)

Output cable USB to USB (804-1210) or output cable RS232 to RS232 (925-5609)

8 inputs for Sylvac probes

Tolerance indicators

Connection by USB (2x) or RS232 (1x)



Opto-coupled digital output rack

Connection by USB (2x) or RS232 (1x)

SWISS MADE

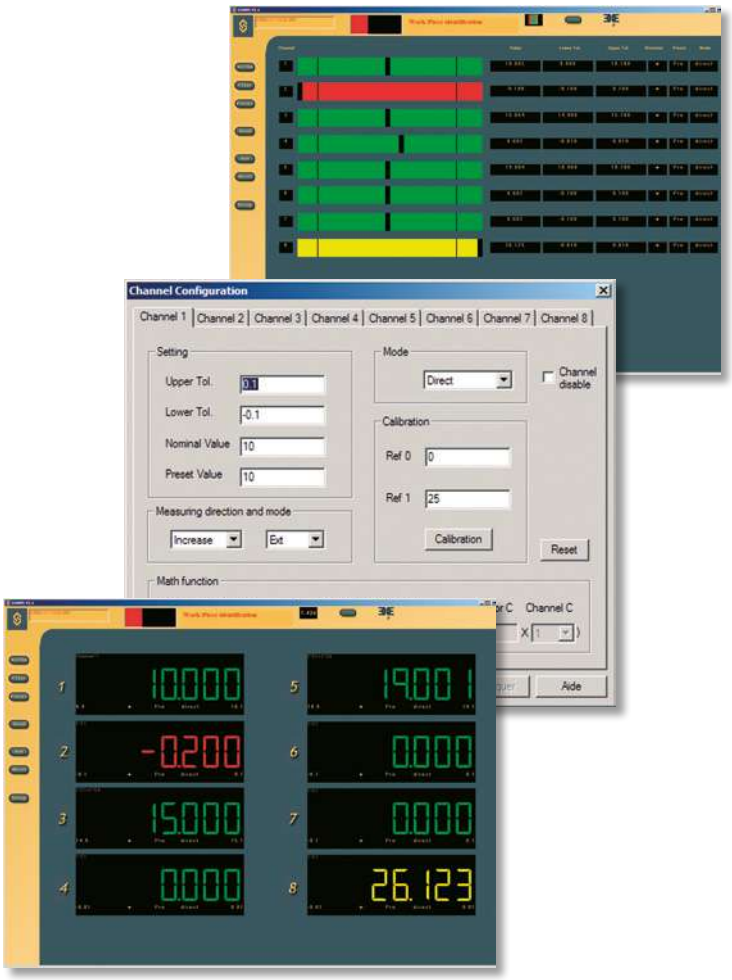
USB

H

Multiplexer unit D200S

DISPLAY/SOFTWARE

- **Selection of unit mm/inch**
- **Selection of resolution**
- **PRESET function**
- **Sending Data**
- **Tolerance indicators with LED**
- **Min/Max/Delta display**
- **Individual selection of measuring direction**
- **Switchable digital/bargraph display**
- **Global tolerance status of the measured part**
- **Programming channels screen**
- **Sending Sequences of Data**
- **External contact configuration**
- **Electrical external contact configuration**
- **Open / Save configurations**
- **Transfer configuration to D200S unit**



TECHNICAL SPECIFICATIONS

		804-1200
Type		D200S
Max. MPE error	µm	P5 : 1.6 / P10 : 1.6 / P25 : 1.9
Repeatability MPE_R	µm	P5 : 0.2 / P10 : 0.2 / P25 : 0.2
Frequency of measurement		200 values /second
Overall dimensions	mm	304 x 171 x 61
Weight	kg	1.2
Case		Aluminium profile, Terlend plastic, ABS and aluminium vanished
Protection rating according to IEC 60529		IP50
Output data		USB / RS232 [1]
Programmable by PC		●

[1] see cables chapter

H

Multiplexer unit D200S

STANDARD DELIVERY

- Instrument according to technical specifications
- Feet for use in vertical position
- Charging unit according to country (904-4200)
- PC Connection cable type USB (804-1210)
- USB stick with D200S software
- Instruction manual

APPLICATIONS

Dynamic measurement of several diameters, (OD and ID) of a shaft

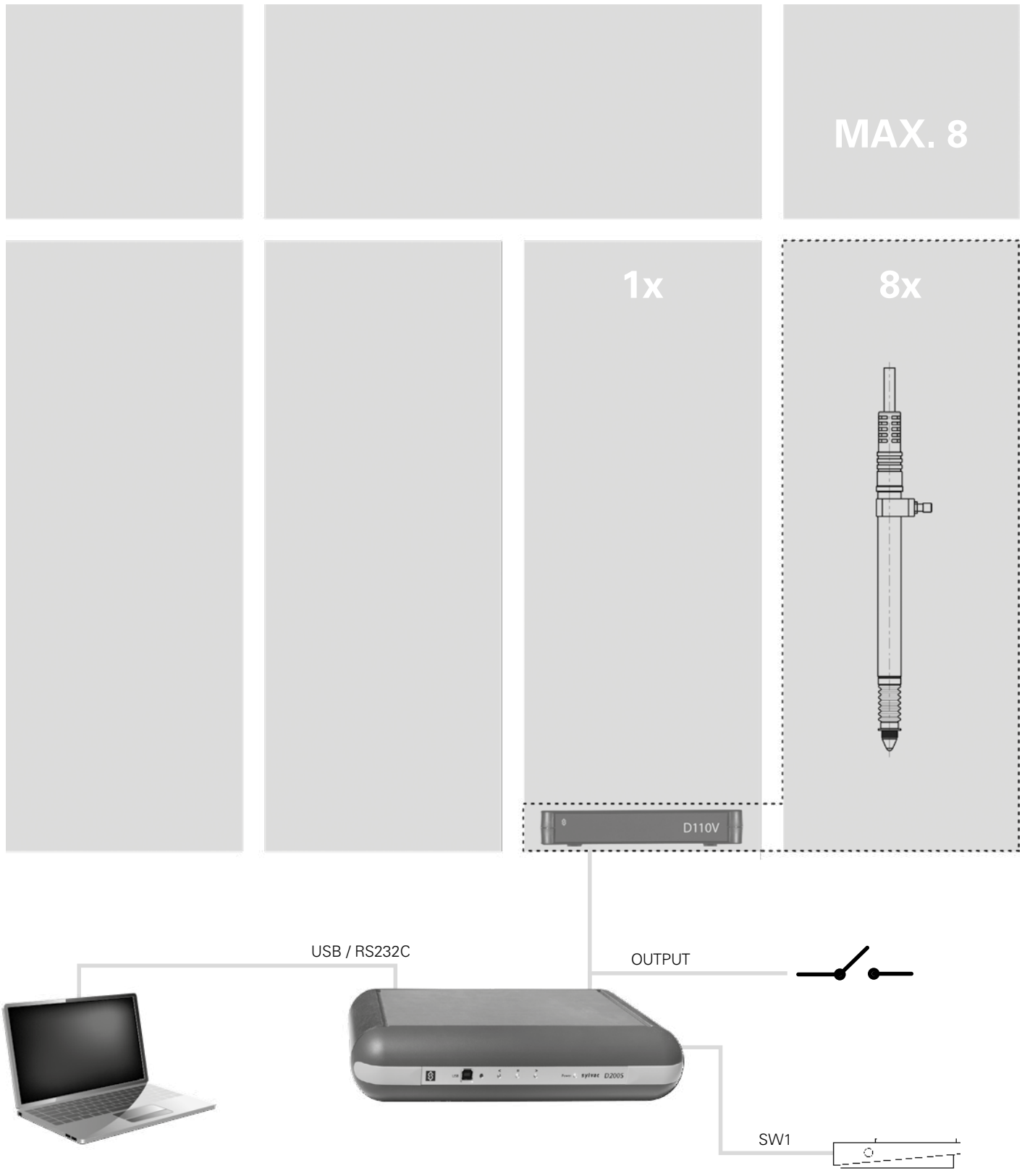
Capacitive probes connected to a D200S.

Multi-gauging application

H

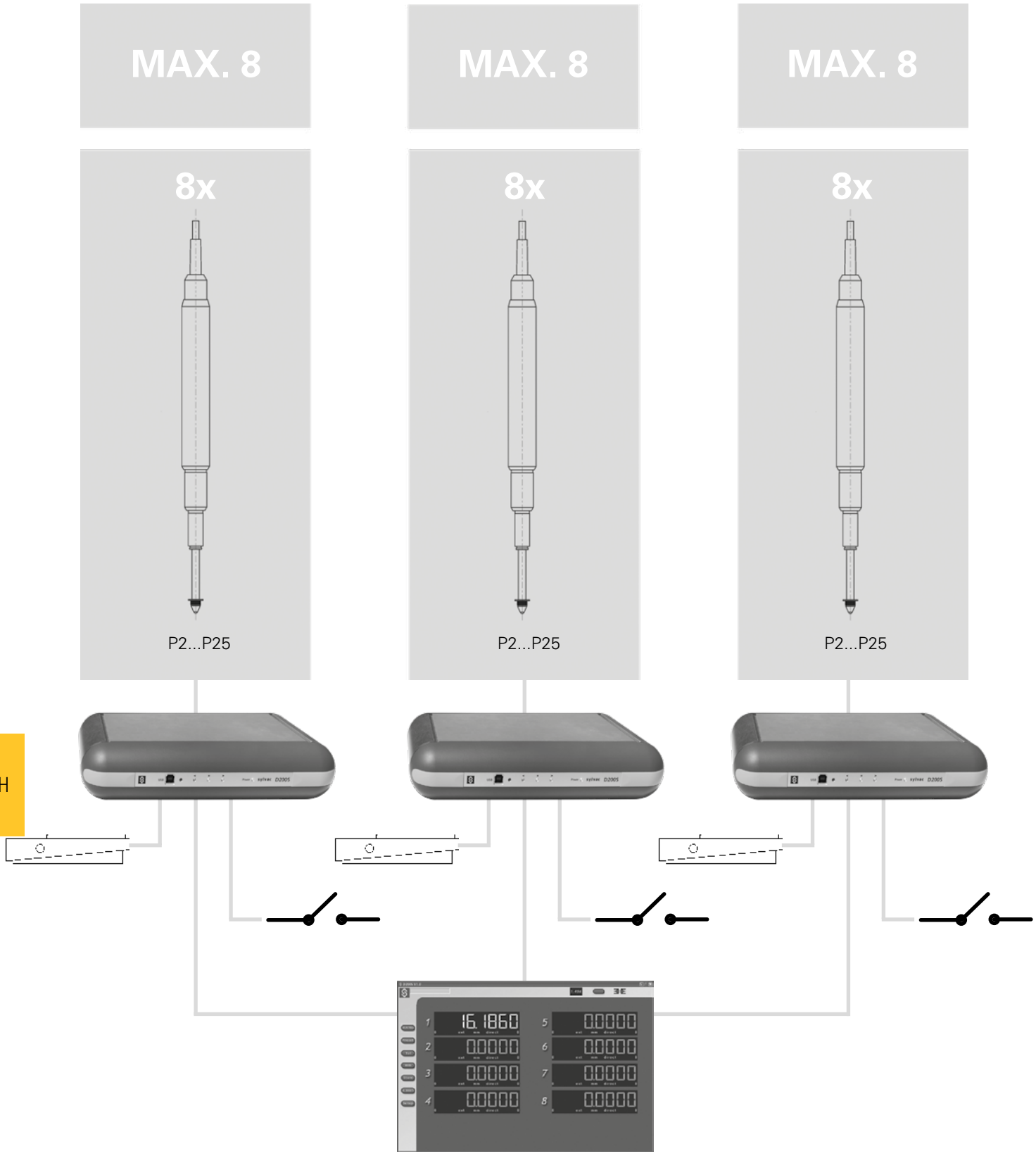
Multiplexer unit D200S

POSSIBILITIES OF D110V PNEUMATIC LIFTER



Multiplexer unit D200S

POSSIBILITIES OF CONNECTION



Digital display D300S V2

DESCRIPTION

- Multifunctional units for connecting both capacitive probes and handheld instruments connected via USB cable or Bluetooth®
- Housing made of aluminium profile and ABS plastic
- Large 8.5" colour touch screen
- Available in several versions with different connection possibilities :
  - 804-1310: 4 inputs for capacitive sensors and 6 USB inputs
  - 804-1350: 6 USB inputs
- Intuitive interface to create up to 64 pages with up to 8 display channels per page, create channel combinations, perform dynamic measurements or create sequences
- Display resolution up to 0.0001 mm (0.1 µm)
- I/O terminal block with opto-coupled inputs/outputs
- 2 connectors for optional pedal 904-4101
- VGA output for external display connection
- Ethernet RJ-45 connector
- USB and RS232 data outputs
- IP65 liquid-proof front panel for workshop use

Output cable USB to USB (804-1210) and output cable RS232 to RS232 (925-5609)

SWISS MADE

USB

RS232

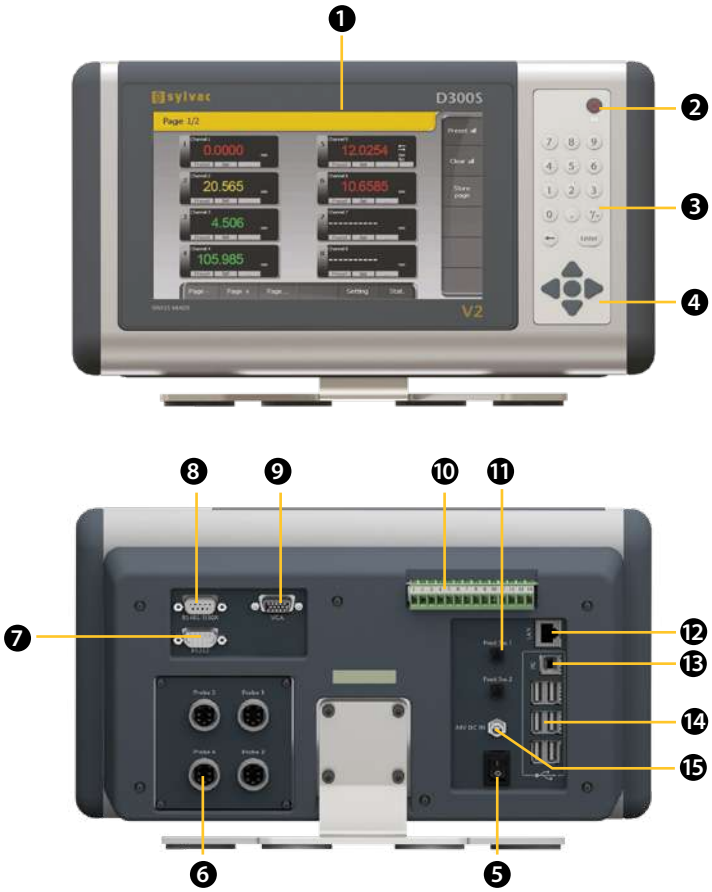
* Dongle Smart required

Digital display

D300S V2

INTERFACE | HARDWARE

1. **Touchscreen 8.5 “**
2. **ON/OFF button for LCD**
3. **Numeric keyboard**
4. **Navigation keyboard**
5. **ON/OFF switch**
6. **Capacitive probes inputs** [2]
7. **RS-232 instrument input or PC connection** [1]
8. **RS-485 input** [2]
9. **VGA output**
10. **Opto-coupled digital output**
11. **2 inputs for external contacts**
12. **RJ-45 Ethernet**
13. **USB Device connector**
14. **6 USB Host inputs**
15. **24VDC connector**



[1] depends on configuration
[2] on model 804-1320, it is not possible to connect D302 and D304 multiplexing units.

TECHNICAL SPECIFICATIONS

		804-1320	804-1350
Model		D300S-4	D300S
Inputs *		4 probes**	
USB inputs		6 USB**	
Max MPE error	µm	P5 : 1.6 / P10 : 1.6 / P25 : 1.9	---
Max. MPE Error [1]	µm	P5 : 0.6 / P10 : 0.6 / P25 : 0.8	---
Repeatability MPE_R	µm	P5 : 0.2 / P10 : 0.2 / P25 : 0.2	---
Overall dimensions	mm	330 x 175 x 77	
Weight	kg	3.3	
Case		Steel / Plastic	
Protection rating according to IEC 60529		IP40	
Output data		USB / RS232	
Programmable by PC		•	

[1] Probe and unit calibrated ex-works by Sylvac
* Up to 8 probes with D302 / D304, or up to 12 probes with USB combo hub (8 probes) + D304 (4 probes)

Digital display

D300S V2

STANDARD DELIVERY

- Unit according to technical specifications
- Table base
- External contact (foot-pedal)
- Charging unit according to country (804-4000)
- Instruction manual

APPLICATIONS

Many instruments connected to the D300S with live displayed colored values to indicate the tolerances

Multi-gauging measurement using D200S interface and D300S display

Measurement using PS17 bench
Automatic detection of measuring channel and automatic switch to the right window

Multiple instruments connection through Bluetooth® wireless technology

Measuring bench connected through Bluetooth® wireless technology and pedal connected through USB.

Dial gauges with Bluetooth® wireless technology connected to D300S

H

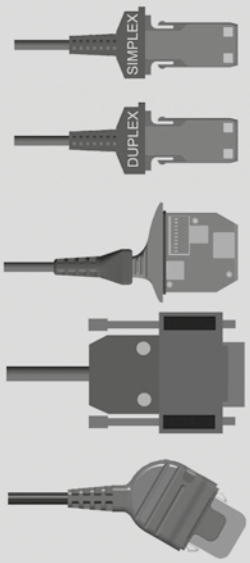
Digital display D300S V2

POSSIBILITIES OF CONNECTION WITH ACCESSORIES

MAX. 6
Power supplied by D300S
MAX. 12
Power supplied by USB-HUB

MAX. 30
Via D200S

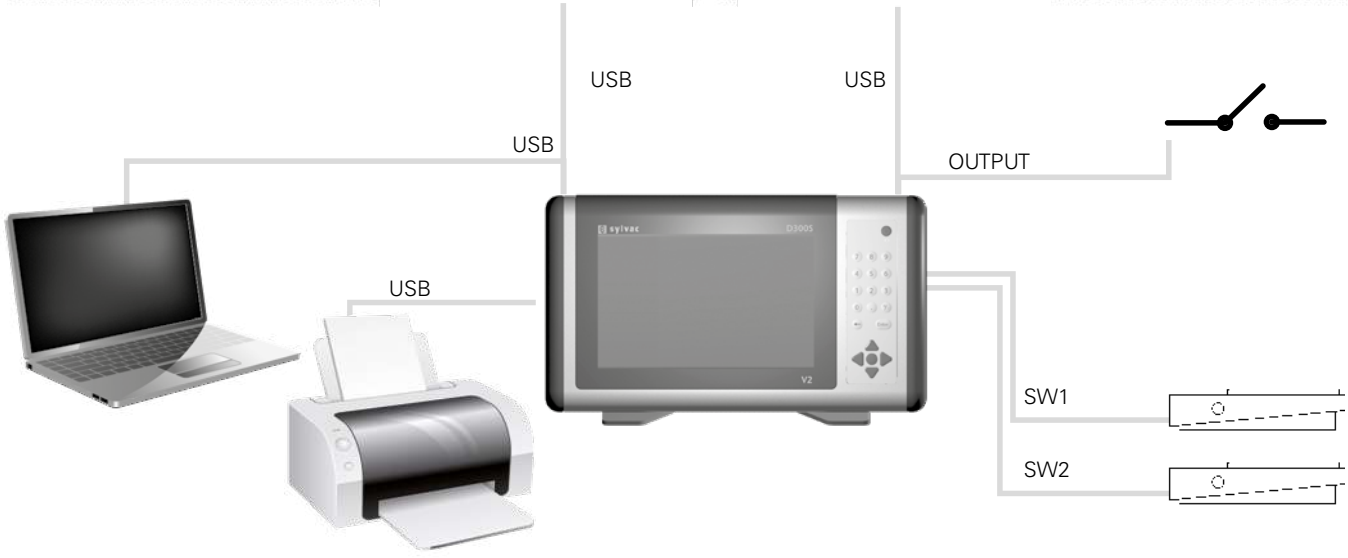
6x USB
1x RS-232



4x

8x

P2...P25



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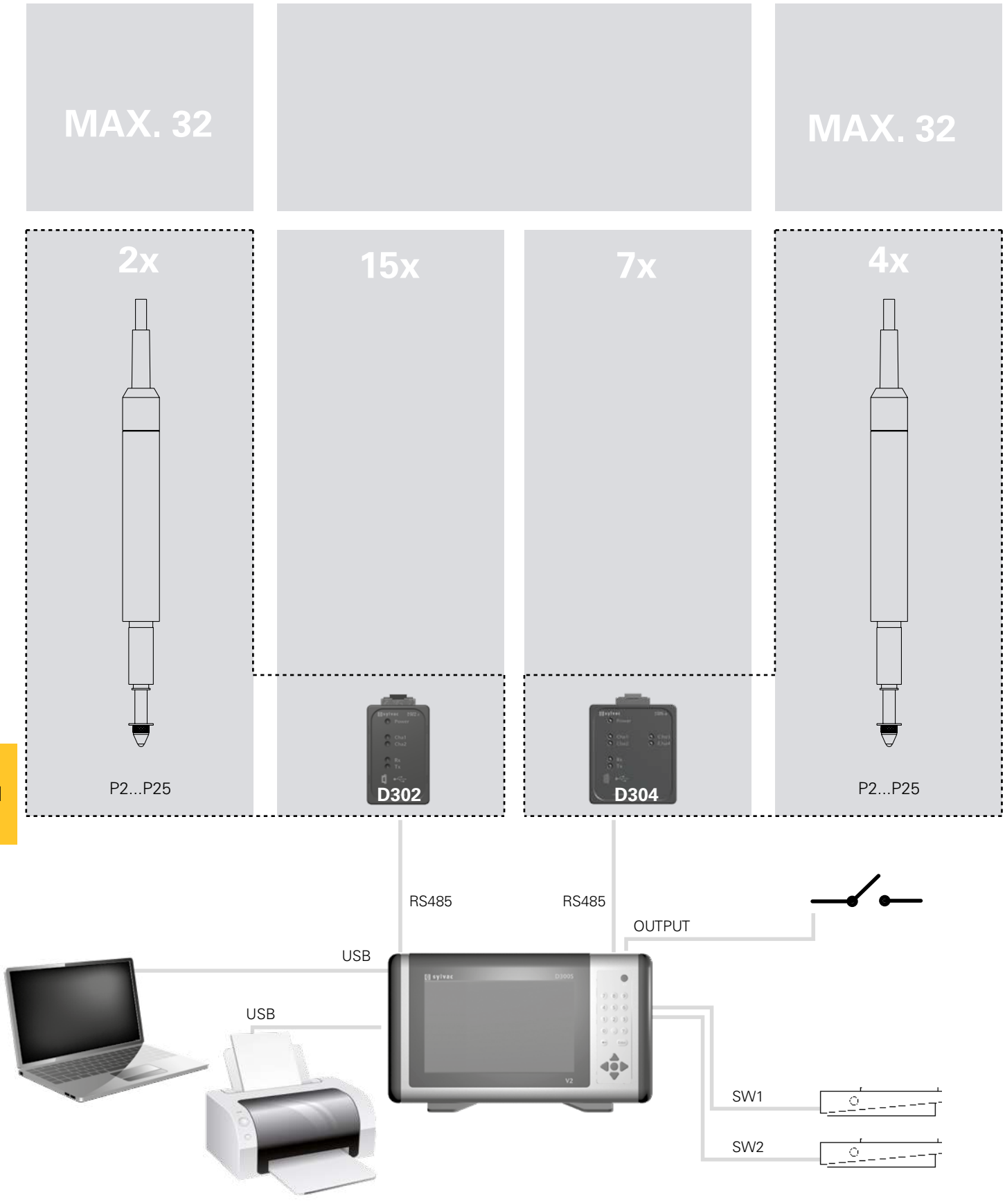
Digital display D300S V2

POSSIBILITIES OF CONNECTION WITH ACCESSORIES



Digital display

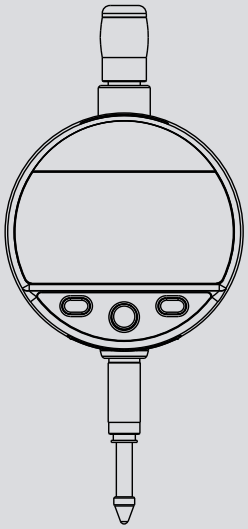
D300S V2

POSSIBILITIES OF CONNECTION WITH BLUETOOTH® WIRELESS TECHNOLOGY

MAX. 8

Instruments

Bluetooth®



1x

981-7100

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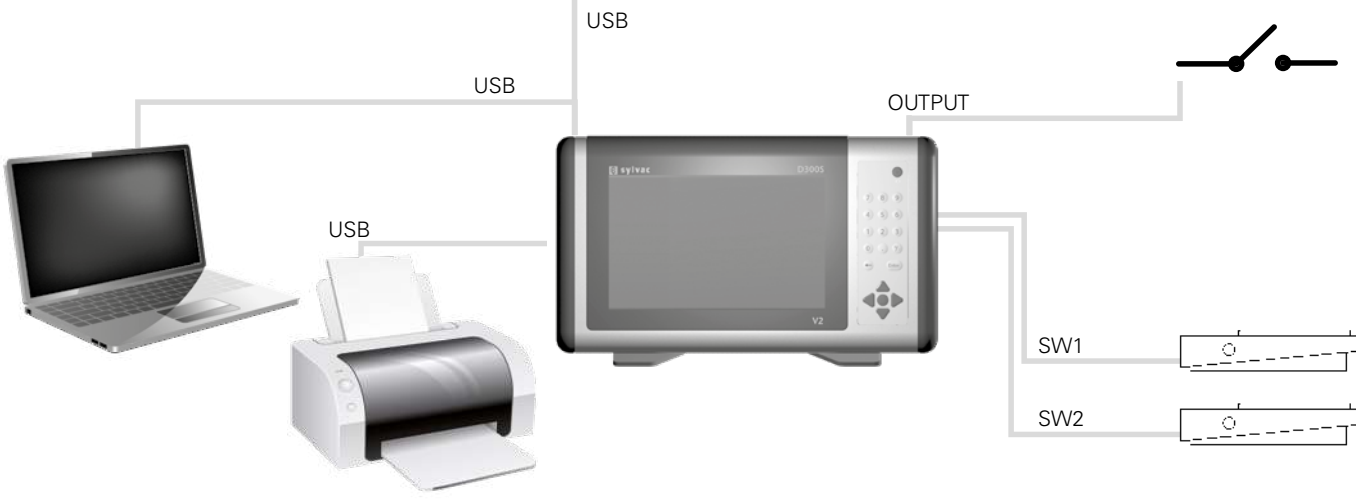


Digital display D400S

DESCRIPTION

- Multifunctional unit for connecting up to 99 Sylvac instruments of different makes via M-BUS modules (the unit itself has no inputs for the instruments)
- Ideal for multi-dimensional control stations and automation applications
- Robust aluminium housing with table stand or can be integrated into a panel
- Large 7" colour touch screen
- Displays up to 32 channels simultaneously (on the same screen) or spread over several pages (max. 32)
- Intuitive interface for creating channel combinations, performing dynamic measurements, editing mathematical formulas or creating sequences
- Up to 128 room configurations can be stored and up to 30,000 values can be saved per configuration or saved on a USB stick.
- Basic SPC functions (Cp, Cpk, run chart, Pareto, histogram with Gauss curve, etc.).
- Display resolution up to 0.0001 mm (0.1 µm)
- Connectors for optional pedal 904-4101
- USB and RS2323 data outputs
- ASCII and Modbus communication protocols
- IP54 liquid-proof front panel for workshop use

M-Bus module mounting kit (accessory 804-2210)

Large touchscreen 7" protected against liquids IP65

Output cable USB to USB (804-1210) or RS232 (925-5609)

USB

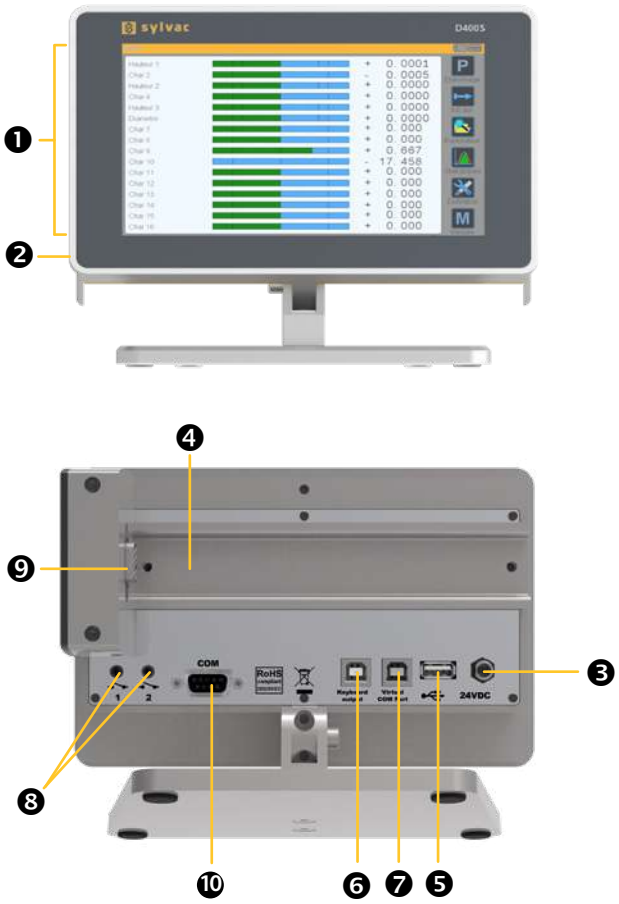
H

Digital display

D400S

INTERFACE | HARDWARE

1. **Customizable display interface**
2. **Aluminium body**
3. **24VDC Power supply**
4. **DIN rail mounting (option)**
5. **USB key connector or QR code reader**
6. **USB for HID keyboard emulation**
7. **Virtual Com Port**
8. **Footswitch 1 and 2**
9. **Mbus connector**
10. **Com Port (ASCII communication, Modbus RTU and Profinet module connection)**



TECHNICAL SPECIFICATIONS

		804-2400
Model		D400S
Overall dimensions	mm	200x143x151.6
Weight	kg	1.3
Case		Aluminium
Protection rating according to IEC 60529		IP65 (front face)
Output data		USB / RS232
Programmable by PC		●

H

Digital display D400S

STANDARD DELIVERY

- Unit according to technical specifications
- Charging unit
- Instruction manual

APPLICATIONS

Probes connection through M-BUS inputs

Inductive probes connection on a jig

Probes and indicators connection through M-BUS inputs

H

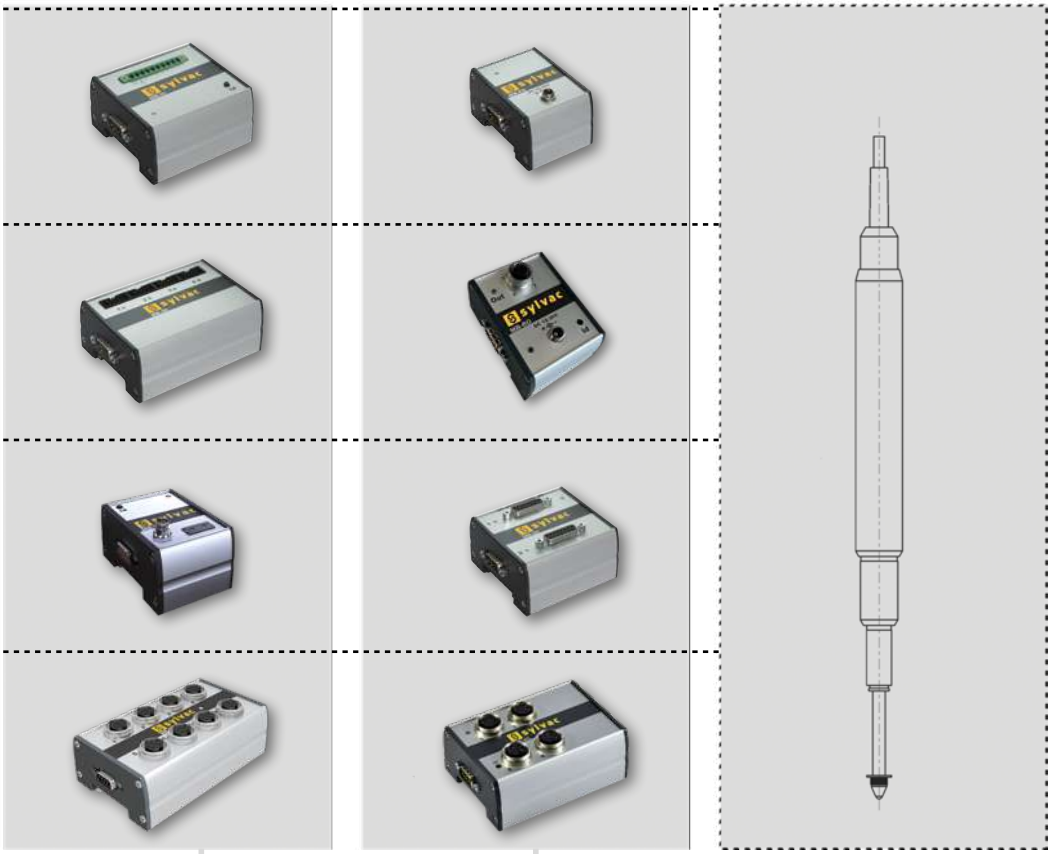
Digital display

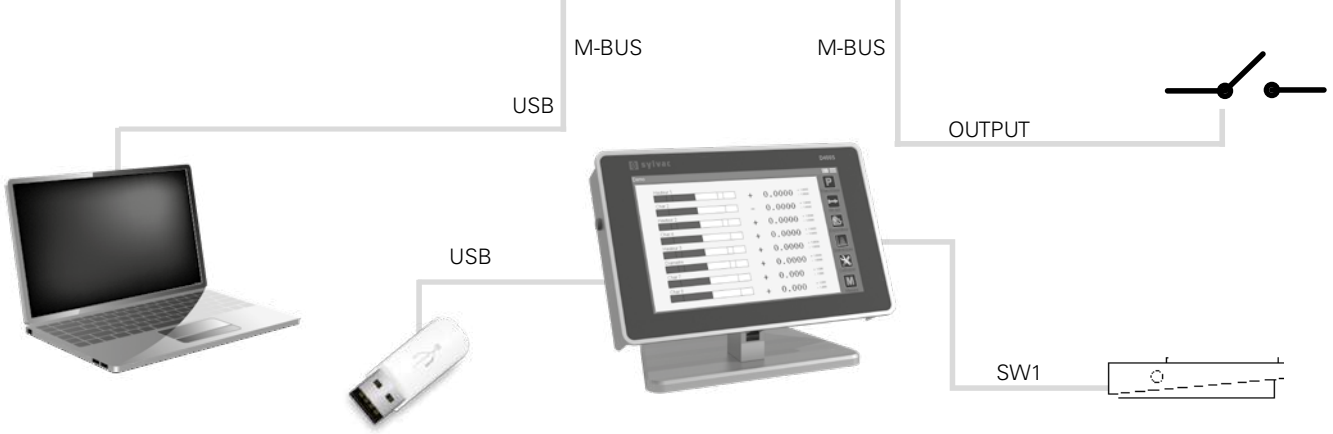
D400S

POSSIBILITIES OF CONNECTION WITH ACCESSORIES

Compatible with all M-BUS modules, except MB-RS

MAX.99





H

Multiplexer unit D302 / D304

DESCRIPTION

- Multiplexing units for connecting Sylvac capacitive probes to a computer or a PLC
- 2 or 4 inputs for capacitive sensors P5, P10 or P25
- Aluminium and plastic housing
- Available in 2 versions :
  - D302/D304 allowing the reading and conversion of the position value of Sylvac capacitive probes up to a resolution of 0.1µm. The results are available on a USB port and on a MODBUS RS485 port.
  - D302a/D304a equipped with an extension to provide analogue voltages corresponding to the position of the probes, with a range of +/-10V and a resolution of up to 0.025 mV
- Baud rate 10-20 measurements per second depending on resolution
- Up to 16 D304 units can be coupled together to have a maximum of 64 probe inputs.
- IP40 protection

Output cable RS485 to RS485 (925-5609)

Output cable mini-USB to USB (926-6001)

SWISS MADE

RS485

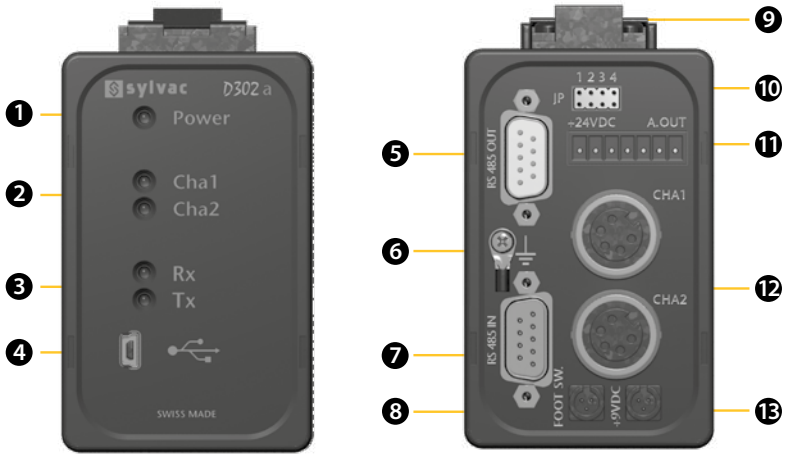
mini-USB

H

Multiplexer unit D302 / D304

HARDWARE DESCRIPTION

1. **LED Power**
2. **LEDS channel**
3. **LED RS 485 activity**
4. **USB port for PC connection**
5. **RS 485 output**
6. **Ground connector**
7. **RS 485 input**
8. **External connector**
9. **Standard clamping (DIN 35mm)**
10. **Jumpers**
11. **Analogic output / 24 VDC (only version a)**
12. **Probes input**
13. **9V power supply input**



TECHNICAL SPECIFICATIONS

		804-1302	804-1303	804-1304	804-1305
Model		D302	D302a	D304	D304a
Max error MPE	µm	P2 : 1.5 / P5 : 1.6 / P10 : 1.6 / P25 : 1.9			
Max. Error MPE [1]	µm	P2 : 0.5 / P5 : 0.6 / P10 : 0.6 / P25 : 0.8			
Repeatability MPE_R	µm	P2 : 0.2 / P5 : 0.2 / P10 : 0.2 / P25 : 0.2			
Overall dimensions	mm	95 x 88 x 55		95 x 88 x 77	
Weight	kg	0.3			
Case		Aluminium profil / plastic TA 6			
Protection rating according to IEC 60529		IP40			
Output data		USB / RS 485			
Programmable by PC		●			
Analog output signal			-10V ... +10V		-10V ... +10V

[1] Maximum error on paired probe and unit

STANDARD DELIVERY

- Unit according to technical specifications
- Feet (pair)
- RS232/RS485 cable
- Charging unit according to country (904-4200)
- Instruction manual

H

Multiplexer unit

M-Bus

DESCRIPTION

- Interfacing modules for connecting Sylvac instruments (hand instruments and probes) as well as instruments of other brands to the D300S and D400S units, to a computer (Sylcom Advanced and Pro) or to a PLC
- Manufactured from an anodised aluminium profile for mounting on a DIN rail, our M-Bus modules are suitable for use in harsh industrial environments.
- RS485 data output
- The following modules are available:

804-2160 MB-RS module
Master module for communication with the computer or PLC via USB or RS232.

804-2104 Module MB-4C
Module with 4 connectors for Sylvac capacitive probes.

804-2107 Module MB-4I / 804-2108 Module MB-8I
Module with 4 or 8 connectors for Sylvac inductive probes. These modules are also suitable for Half-Bridge probes from other manufacturers using the Tesa protocol (Mahr, Dong-Do, Tesa, Peter Hirt, etc.).

804-2122 Module MB-2S
Module with 2 connectors for Heindenhain incremental probes 11µmA/1VPP .

804-2190 Module MB-AG
Module with one inlet for tampon or air ring, supplied with a set of 6 different throttles.

804-2140 MB-PS module
Additional power supply module that may be required when a large number of M-BUS modules are connected together.

804-2133 MB-RO module
Relay output for D400S and D70A.

804-2130 MB-I/O module
Module with 8 opto-coupled inputs/outputs for communication with a PLC or peripherals such as an alarm signal. It is possible to connect several I/O modules in order to have up to 32 inputs/outputs.

804-2105 Module MB-4P
Module with 4 connectors type M8 for Sylvac P12D digital probe.

804-2111 Module MB-1D / 804-2114 Module MB-4D
Module with 1 or 4 Digimatic type connectors for Mitutoyo instruments and instruments of other Digimatic compatible brands.

804-2180 MB-BT module
Module for connecting 8 Sylvac Smart Bluetooth® instruments (only compatible with D400S unit).

804-2170 MB-TP module
Module with one input for a thermocouple or PT100 temperature sensor/probe.

804-2132 MB-NET module
Module with Ethernet connector to transfer values to a server.

Multiplexer units M-Bus

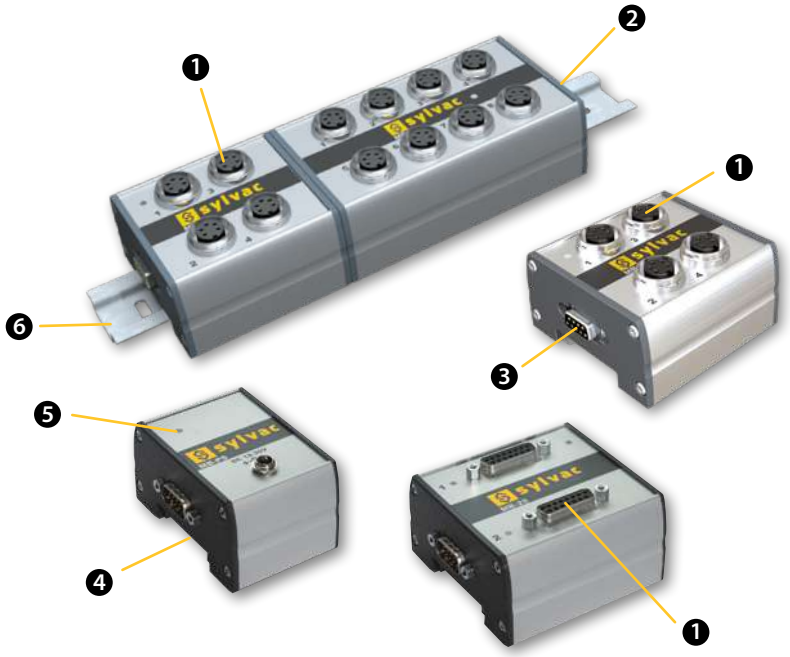
Multiplexer unit

M-Bus

HARDWARE DESCRIPTION

1. **Probes input**
2. **M-Bus input**
3. **M-Bus output**
4. **DIN mounting groove**
5. **LED / Power module**
6. **DIN rail**

Output cable RS485 to RS485 (925-5609)



TECHNICAL SPECIFICATIONS

	804-2104	804-2108	804-2122	804-2114	804-2111	804-2107	804-2105
Model	MB-4C	MB-8i	MB-2S	MB-4D	MB-1D	FMB-4i	MB-4P
Instrument type	Sylvac capacitive probes	Inductive[1]	Heidenhain probes (11µA/1VPP)	Digimatic		Inductive[1]	Probes P12D
Compatibility	D400S						D400S & D70H/I/A
Dimensions (L x h x w) mm	107x42x74	131x44x74	82x43x74	107x39x74	52x39x74	107x39x74	107x42x74
Weight kg	0.2	0.3	0.2	0.2	0.1	0.2	0.2
Inputs	4	8	2	4	1	4	4
Case	Anodized aluminium profile						
Output data	RS 485						

[1] Half-bridge: see www.sylvac.ch for information on compatibility

F = fast version

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Multiplexer unit

M-Bus

TECHNICAL SPECIFICATIONS

	804-2130	804-2140	804-2160	804-2170	804-2180	804-2190	804-2132	804-2133
Modele	MB-IO	MB-PS	MB-RS	MB-TP	MB-BT	MB-AG	MB-NET	MB-RO
Instrument type	PLC I/O	Power-Supply	Computer	Temperature sensor input PT100 and Thermocouple	Instruments with Bluetooth® wireless tech-nology	Plug gauges and Air gauges	Ethernet connector for server sending	Relay output
Compatibility	D400S & D70H/I/A			D400S & D70H/I/A				
Dimensions (L x h x w) mm	82x39x74	52x42x74	82x39x74	52x51x74	52x39x74	52x64x74	52x64x74	52x64x74
Weight kg	0.2	0.2	0.2	0.1	0.1	0.15	0.15	0.15
Inputs	8	12-30 VDC	254	1 / 1	8	1	1	1
Case	Anodized aluminium profile							
Output data	RS 485							

MB-4C

MB-8i

MB-2S

MB-4D

MB-BT

MB-IO

MB-PS

MB-RS

MB-TP

MB-RO

MB-4P

MB-AG

MB-NET

STANDARD DELIVERY

- M-Bus module according to technical specifications
- Instruction manual

Multiplexer unit

M-Bus

APPLICATIONS

Probes connection through M-BUS inputs

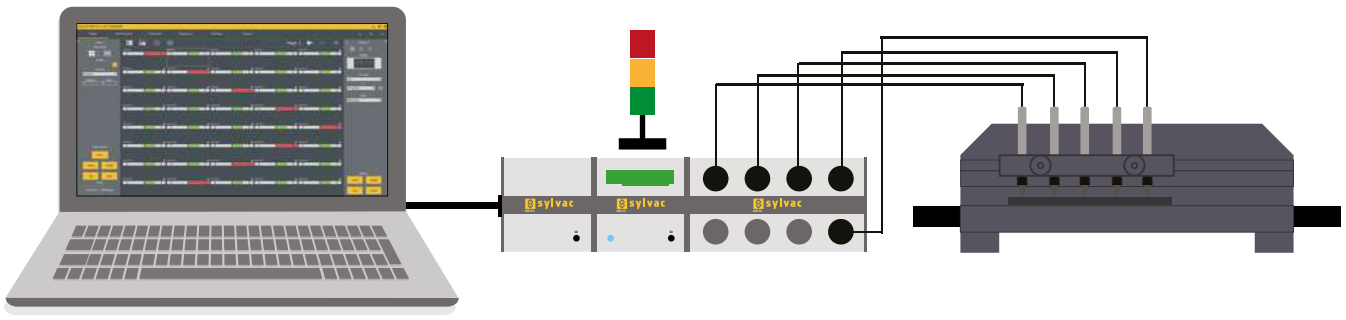
Probes connection on PC through MB-RS

Probes and indicators connection through M-BUS inputs

Probes connection on a D300S through D302 multplexer units

Digimatic instruments connected to a MB-4D

Probes connected to a MB-8i



Connection of probes via Mbus on Sylcom

Multiplexer and Display units

ACCESSORIES

POWER SUPPLY & FOOTPEDALS

		D50S	D62S	D70S	D70H	D70I	D70A	D200S	D300S	D302 D304	D400S	P12D
904-1112	D110V-control unit with 16 vacuum outputs							●	●			
904-4200*	Charging set 100-240V / 9V	●	●					●		●		
904-4205	EUR cable, included in 904-4200	●	●					●		●		
904-4204	UK cable, included in 904-4200	●	●					●		●		
904-4203	USA/JPN cable, included in 904-4200	●	●					●		●		
904-4201	CH cable, included in 904-4200	●	●					●		●		
804-4000*	Charging set 100-240V / 24V								●		●	
904-4001	EUR cable included in 804-4000								●		●	
904-4003	UK cable included in 804-4000								●		●	
904-4002	USA/JPN cable included in 804-4000								●		●	
804-4010*	Charging set 100-240V / 24V											
804-4011	EUR cable included in 804-4010											
804-4013	UK cable included in 804-4010										●	
804-4012	USA/JPN cable included in 804-4010											
904-4101	External contact (footpedal)	●	●	●				●	●	●	●	
904-4102	Footpedal (jack)				●	●	●					
926-7022	Footpedal Smart								● [1]			
926-7020	Footpedal USB											
904-6001	Dust cover								●			
804-1211	Connection cable D200S - D110/V						PC only	●				
804-2211	Cable M12 male/female length 1m						●				●	

[1] Dongle Smart required

[2] The right country cable, depending on the delivery location, will be delivered with 904-4200, 804-4000 and 804-4010.

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Multiplexer and Display units

ACCESSORIES — MODULES

		D50S	D62S	D70S	D70H	D70I	D70A	D200S	D300S	D302 D304	D400S	P12D
804-2104	MB-4C										●	
804-2107/08	MB-4i & MB-8i										●	
804-2122	MB-2S										●	
804-2111/14/18	MB-1D & MB-4D										●	
804-2130	MB-IO				●	●	●				●	
804-2140	MB-PS				●	●	●				●	
804-2160	MB-RS				●	●	●					
804-2170	MB-TP				●	●	●				●	
804-2180	MB-BT				●	●	●				●	
804-2190	MB-AG				●	●	●				●	
804-2105	MB-4P				●	●	●				●	●
804-2132	MB-NET				●	●	●				●	
804-2133	MB-RO				●	●	●				●	

ACCESSORIES — VARIOUS

804-2202	Bracket for panel mounting										●	
804-4103	Table knob with binder connector						●				●	
804-2210	M-Bus module mounting kit										●	

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Multiplexer and Display units

ACCESSORIES

AIR MEASUREMENT

		D50S	D62S	D70S	D70H	D70I	D70A	D200S	D300S	D302 D304	D400S	P12D
804-4101	Restrictor Ø 0.3mm						•					
804-4102	Restrictor Ø 0.4mm						•					
804-4103	Restrictor Ø 0.5mm						•					
804-4104	Restrictor Ø 0.7mm						•					
804-4105	Restrictor Ø 0.9mm						•					
804-2203	Air preparation kit						•				•	
804-2212	Air preparation kit with air saving system [1]						•				•	
804-2213	Additional air preparation for pneumatic probes lifting (requires 804-2203 or 804-2212)										•	

[1] Concept of energy saving consisting of automatically cutting off the air supply when not measuring. A menu on the D70A and D400S unit allows to adjust the ECO mode, by defining a time delay and a wake-up threshold. The savings made with such a system can be up to 50% on the energy bill. This system requires 804-2212, 804-2133 & 804-2211.

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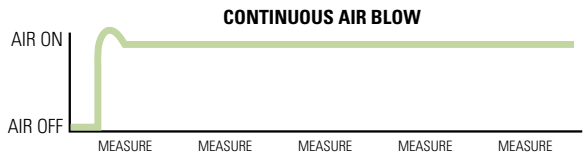
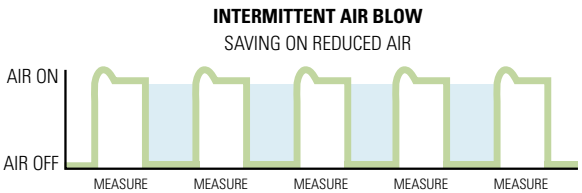
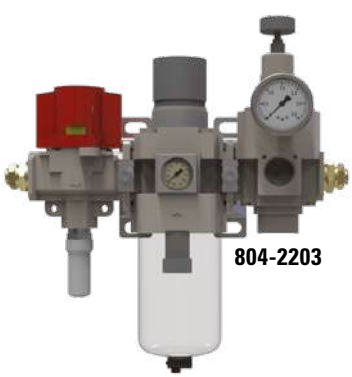
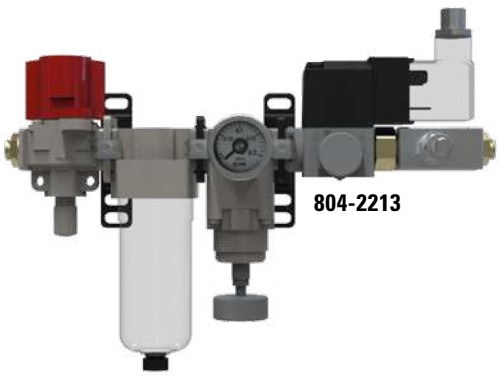





804-2203


804-2213

804-2212

MEASURING BENCH PS15/16/17

Benefiting from long experience acquired through contact with our demanding Swiss watchmaking customers, Sylvac has developed a range of measuring benches enabling most small external and internal dimensions to be checked precisely and quickly.
As the miniaturisation of components nowadays affects all industrial fields, Sylvac is in a position to provide a reliable solution with these instruments for the most unlikely of applications.

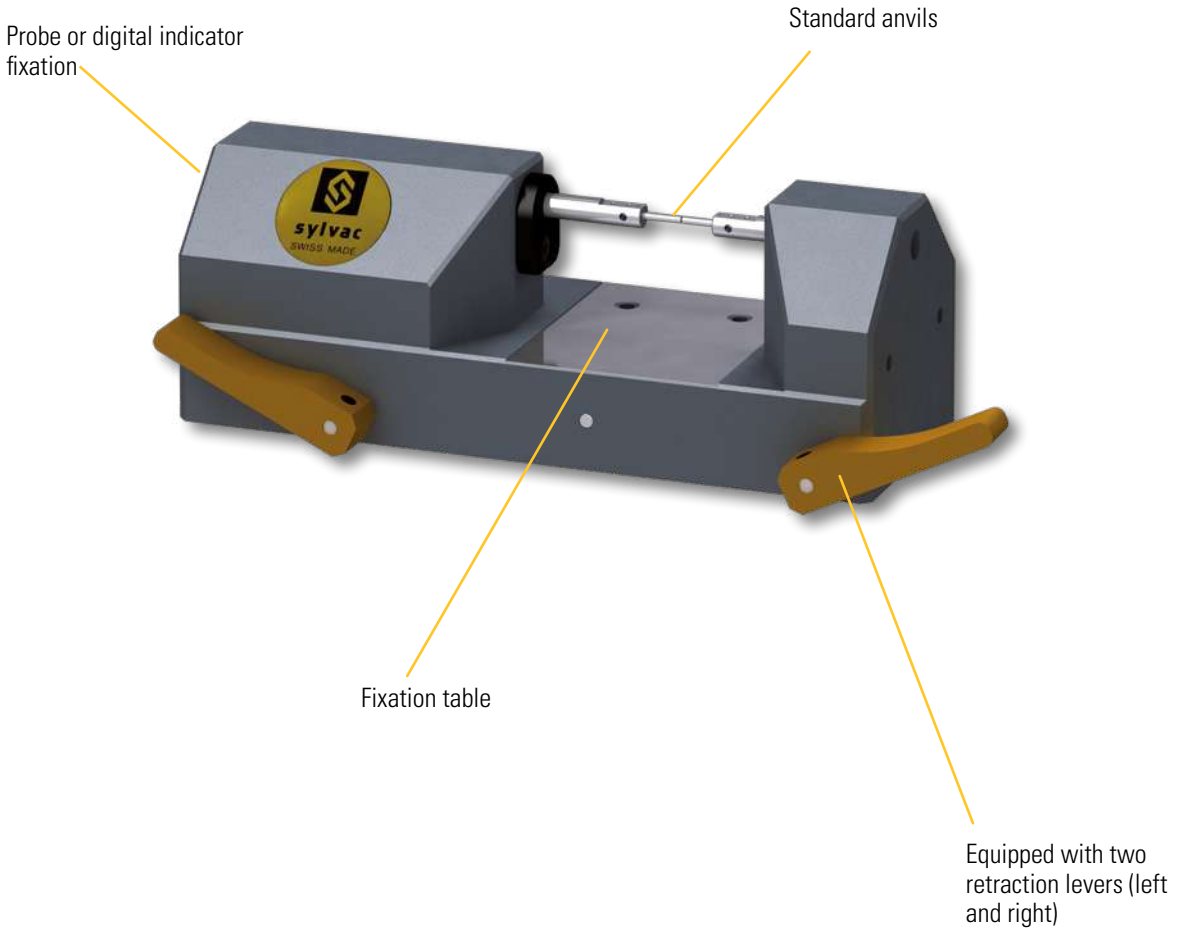
GENERAL CHARACTERISTICS :

- **PS15 and PS17 measuring benches to be equipped with a digital indicator or a measuring probe**
- **PS16 V2 measuring benches with integrated display**
- **Powered by lithium battery type CR2477/CR2032 (PS16 V2)**
- **mm/inch conversion on all models**
- **Working temperature +5° to +40°C**

Bench table PS15

DESCRIPTION

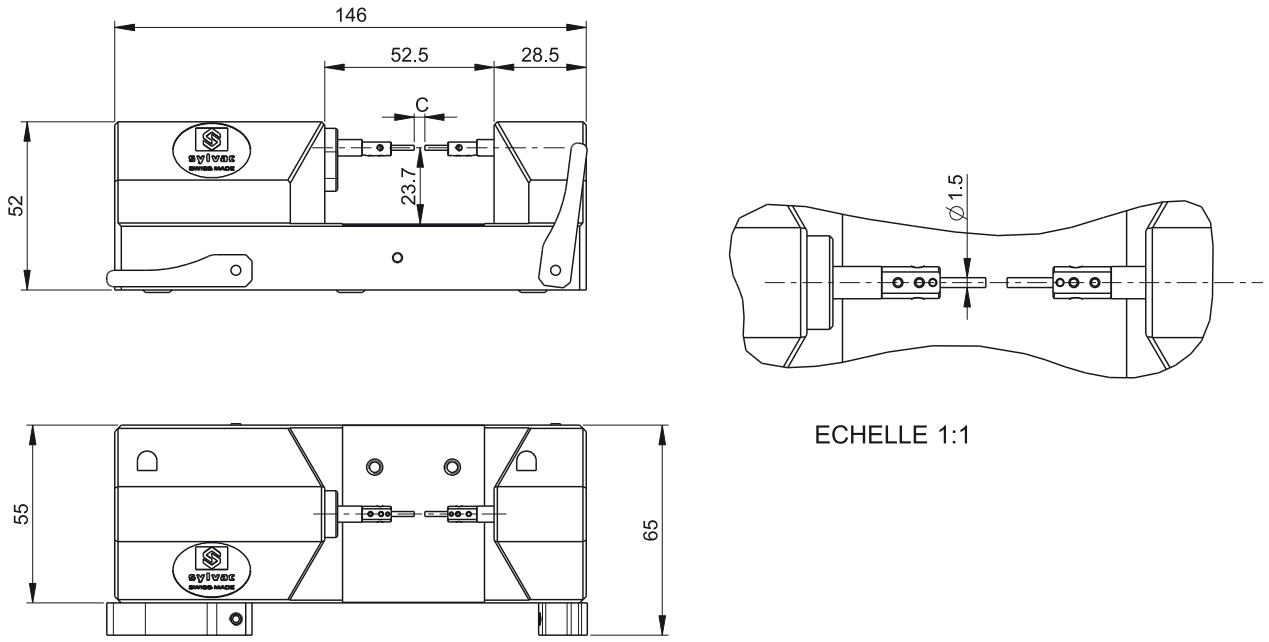
- Horizontal precision bench for measuring small external dimensions
- Can be equipped with either a digital digital indicator or a Sylvac measuring probe.
- Robust cast iron construction
- 2 ergonomic levers for moving the movable axis with ball-bearing guide
- Compatible with Sylvac Ø 1.5 mm and Cary type anvils
- Supplied with hard metal measuring anvils Ø 1.5 mm
- Adjustable measuring force 0.3-1.0 N
- Measuring capacity 20 mm, measuring range 10 mm
- Wide choice of measuring anvils and support tables



SWISS MADE

Bench table PS15

DIMENSIONAL DRAWINGS



ECHELLE 1:1

TECHNICAL SPECIFICATIONS

		808-1215
Type		PS15BH
Max. Capacity C	mm	20
Measuring range	mm	10
Adjustable measuring force	N	0.3 - 1.0
Weight	kg	1.8
Measuring direction		Horizontal
Anvils fixation		Ø 1.5 mm
Cary Compatibility		●

STANDARD DELIVERY

- Instrument according to technical specifications
- Instruction manual
- Measuring anvils Ø 1.5 mm (908-2175)
- Allen anvils 2 and 2.5 mm
- Dust cover

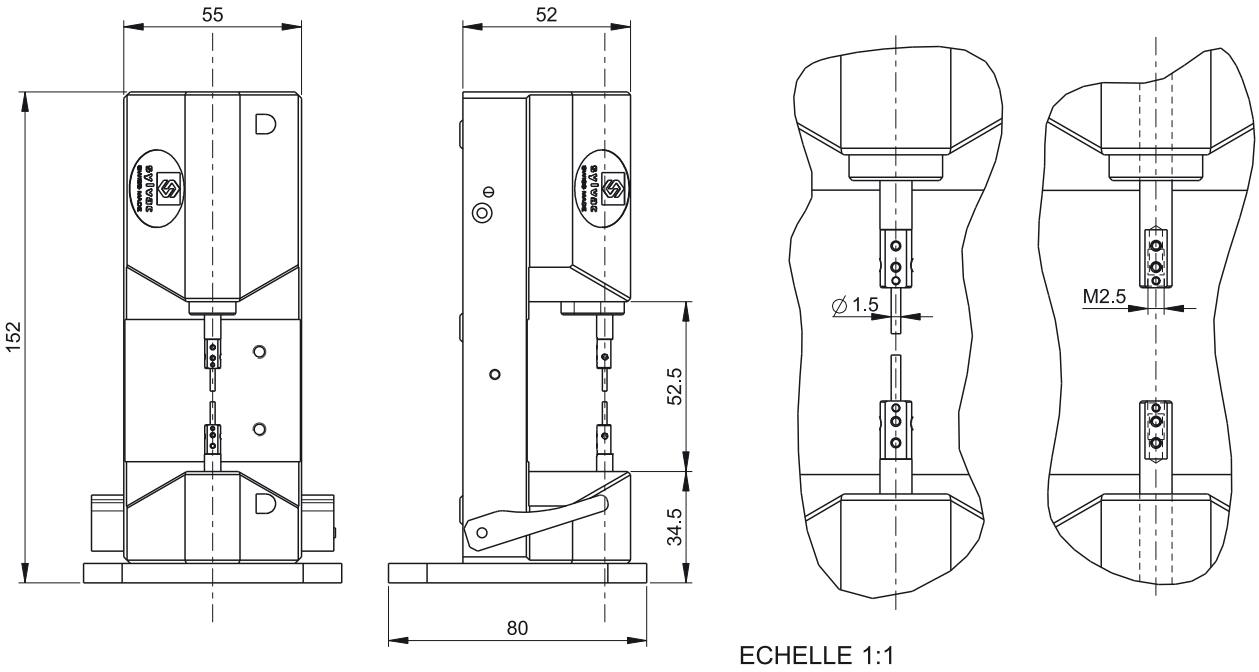
Bench table PS15

DESCRIPTION

- Measuring bench similar to the horizontal bench but prepared for vertical use, with support base and levers positioned to the left and right of the bench.
- This bench is generally equipped with either a flat round table 908-2165 or a rotary hole table 908-2172 with 25 bores Ø 0.2 to 5 mm for measuring shoulder heights. These tables are to be ordered separately
- Supplied with hard metal measuring anvils Ø 1.5 mm

Bench table PS15

DIMENSIONAL DRAWINGS



ECHELLE 1:1

TECHNICAL SPECIFICATIONS

		808-1216	808-1218
Type		PS15BV	PS15BV +
Measuring scale	mm	10	10
Adjustable measuring force	N	0.3 - 1.0	
Weight	kg	1.8	1.8
Measuring direction		Vertical	Vertical
Anvils fixation		M2.5	Ø 1.5 mm
Cary Compatibility		•	

STANDARD DELIVERY

- Instrument according to technical specifications
- Instruction manual
- Measuring anvils Ø 1.5 mm or Ø 5 mm (depending on model)
- Allen anvils 2 and 2.5 mm
- Dust cover

Bench table PS15

TABLES, PLATES AND LAPPING

N°	Designation	PS15BH	PS15BV / BV+
908-2170	Supporting table adjustable in XYZ	•	
908-2160	Supporting table with fine adjustement XYZ	•	
908-2161	Supporting table with fine adjustement Z	•	
908-2166	Floating table	•	
908-2172	Rotating table with 25 bores		•
908-2165	Plain table only		•
908-2162	Cylindrical plate with 25 bores from 0.2 to 5 mm		•

ACCESSORIES

N°	Designation	PS15BH	PS15BV / BV+
908-2198	Replacement lapping stone for 908-2199	•	
908-2199	Lapping device (3 stones and lapping liquid included)	•	

Lapping device

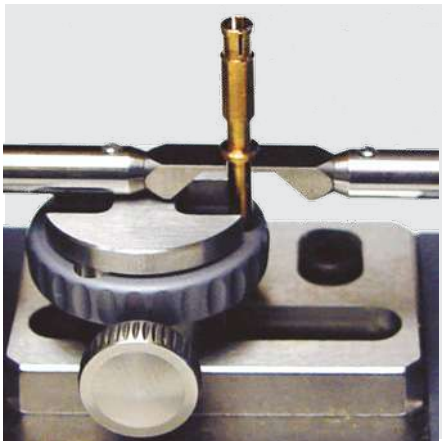
- Device for lapping the anvils on the PS15 BH, PS16 V2 and PS17 measuring benches, enabling perfect parallelism of the anvils for greater measuring accuracy.
- Set consisting of a movable element with linear guide and a motorised rotary drive system for the honing stone
- Delivered complete with 3 honing stones and a bottle of honing liquid.

ANVILS

Compatible anvils list at the end of this chapter.

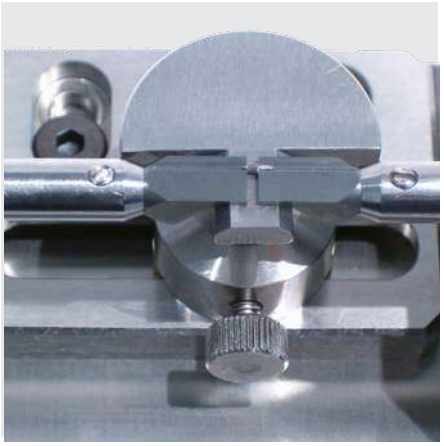
Bench table PS15

APPLICATIONS



XYZ table with plate with fine adjustment.

Measurement of small parts with PS15BV+ and rotation 25 holes support



Special anvils

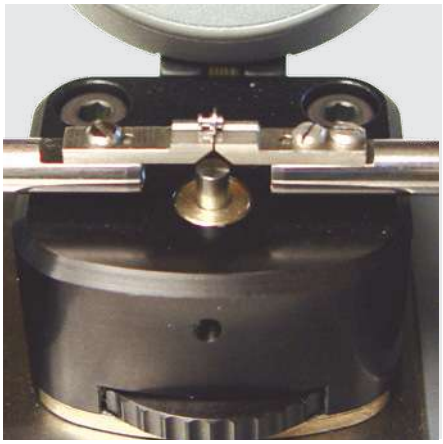
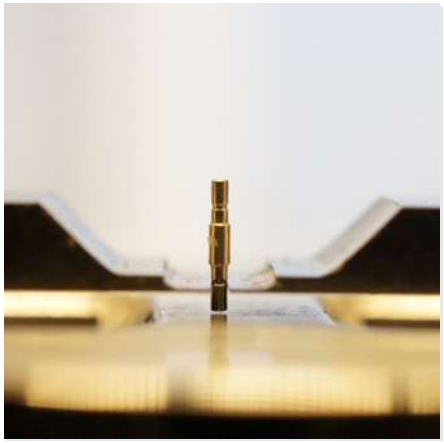


Table with plate Ø 3 mm and fine adjustment. Indication of the height integrated.

Measurement of a small part with PS15 BH



Gear measuring anvils. On request

Bench table

PS16 V2

DESCRIPTION

SMART

- Precision horizontal measuring bench for the measurement of external dimensions
- Robust cast iron construction
- New design with integrated Bluetooth® system
- Large display resolution 0.0001 mm (0.1 µm) with tolerance status indication by colour LEDs
- Three buttons, including the central button with selectable favourite function
- 2 ergonomic, position-adjustable levers for moving the movable axis with ball bearing guide
- The position of the levers can be used to adjust the backward movement of the mobile axis.
- Compatible with Sylvac Ø 1.5 mm and Cary type anvils
- Supplied with hard metal measuring anvils Ø 1.5 mm
- Adjustable measuring force 0.1-0.6 N
- Measuring range 25 and 50 mm
- Additional data outputs Power and Proximity
- Protection class IP67

SWISS MADE

Built-in Bluetooth

USB

PROXIMITY

WATER RESISTANT

IP67

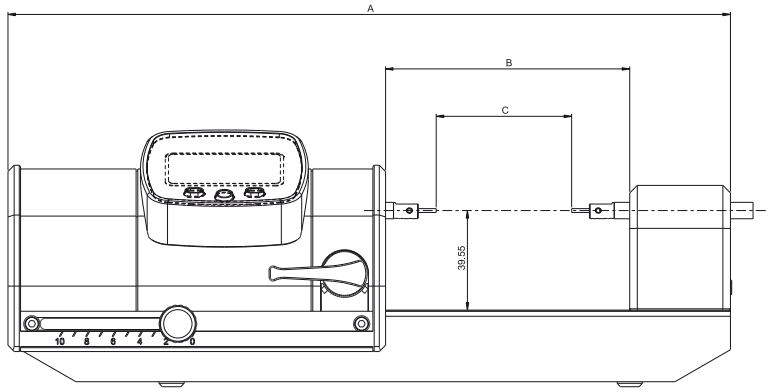
Cable output mini-USB to USB
(926-6001)

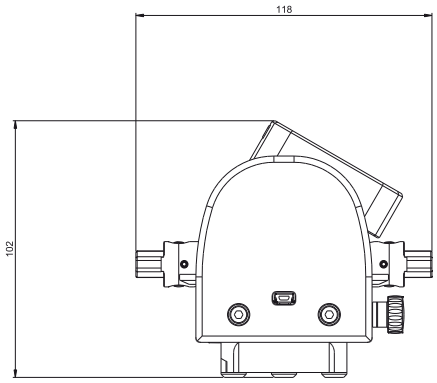
Bench table

PS16 V2

DIMENSIONAL DRAWINGS

SMART





TECHNICAL SPECIFICATIONS

External measurement		**808-1231**	**808-1232**
Max. Capacity C	mm	25	50
Max. Error	µm	1.5	2.0
Repeatability	µm	0.2	
Resolution	µm	0.1	
Measuring force (Adjustable)	N	0.1 - 0.6 [1]	
Weight	kg	3.6	4.2
Output data		Bluetooth® wireless technology / RS232 / USB	
Anvils clamping dimension	mm	Ø 1.5	
Cary compatibility		●	
A	mm	232	287
B	mm	66	97

[1] ± 20%

STANDARD DELIVERY

- Instrument according to technical specifications
- Instruction manual
- Lithium battery CR2477 included
- Adapter for Lithium battery CR2032
- Calibration certificate
- Table not included
- Anvils Ø 1.5mm (908-2175)
- Dust cover

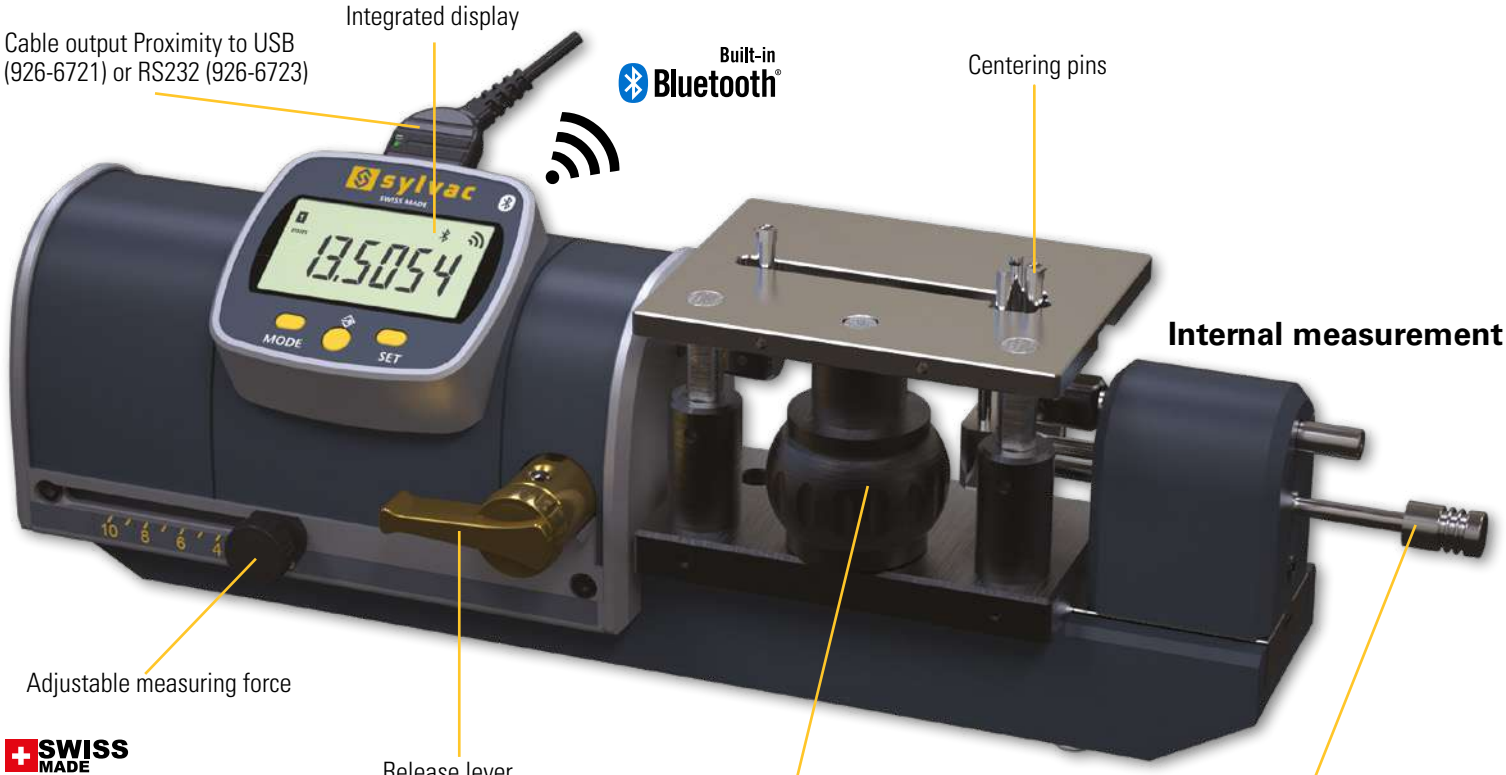
Bench table

PS16 V2 LV

DESCRIPTION

SMART

- Measuring bench similar to the PS16 V2 bench, but equipped with a table and anvils assembly allowing to measure large internal diameters up to 74 mm.
- Originally designed for measuring watch cases, it is also suitable for measuring rings and thin parts.
- 2-point measurement with positioning of the workpiece in the measuring axis by 2 movable centring pins
- Table height adjustable by up to 20 mm (a mini dial indicator can be mounted on the table to check its movement)
- Available in 3 versions :
  - 808-1233: version for measuring internal diameters from 12 to 62 mm
  - 808-1234: execution for measuring internal diameters 18 to 68 mm
  - 808-1235: special version for measuring outside diameters 0 to 50 mm
- Supplied with 0.4 mm thick measuring anvils.



SWISS MADE

Built-in Bluetooth

USB

PROXIMITY

WATER RESISTANT

IP67

External measurement

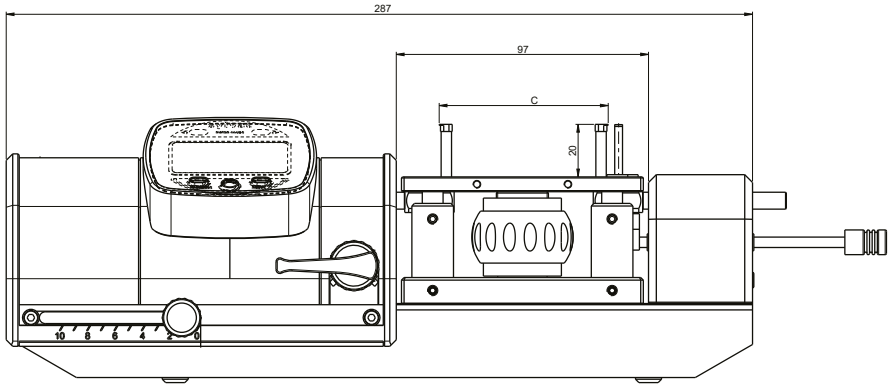
Cable output mini-USB to USB (926-6001)

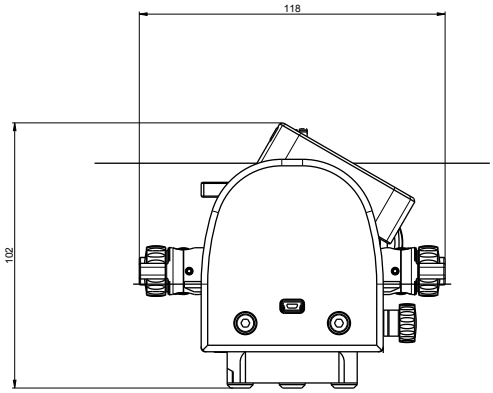
Bench table

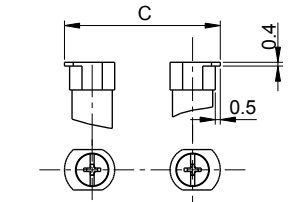
PS16 V2 LV

DIMENSIONAL DRAWINGS

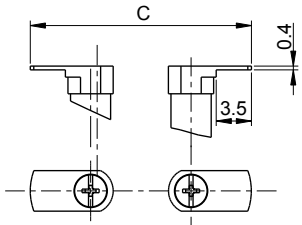
SMART



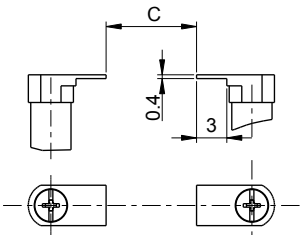




808-1233 (Anvils 808-2183)



808-1234 (Anvils 808-2184)



808-1235 (Anvils 808-2185)

TECHNICAL SPECIFICATIONS

External and internal measurement		**808-1233**	**808-1234**	**808-1235**
Max. Capacity C	mm	Ø 12 - 62	Ø 18 - 68	Ø 0 - 50
Measuring type		Internal measurement		External measurement
Max. Error	µm			
Repeatability	µm	1.5		
Resolution	µm	0.1		
Measuring force (Adjustable)	N	0.1 - 0.6 [1]		
Weight	kg	5.1		
Output data		Bluetooth® wireless technology / RS232 / USB		

[1] ± 20%

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Adapter for Lithium battery CR2032
- Instruction manual
- Calibration certificate
- Anvils 0.4mm and LV table included
- Dust cover

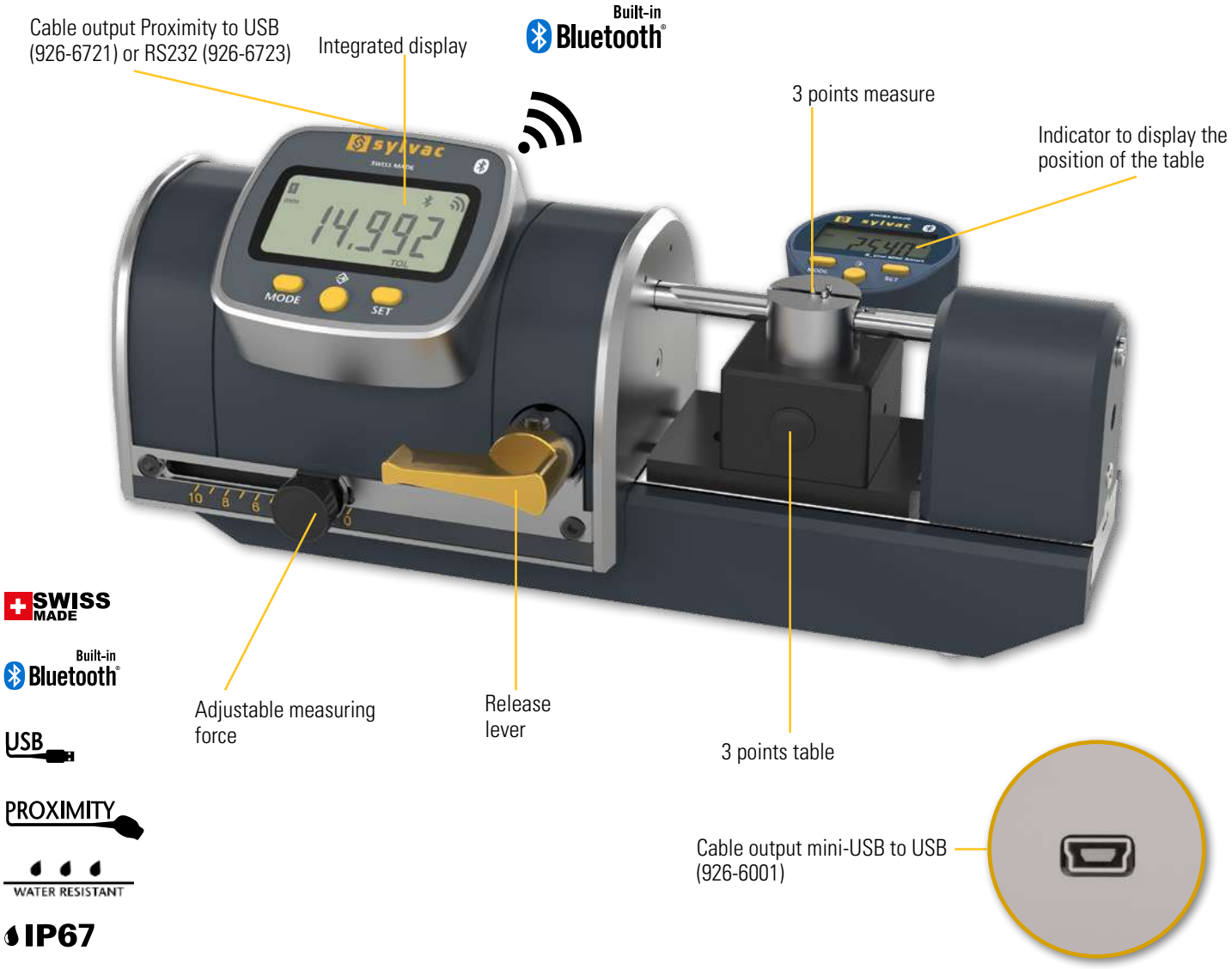
Bench table

PS16 V2 3-Points

DESCRIPTION

SMART

- Measuring bench similar to the PS16 V2 bench, but equipped with a table and anvils assembly allowing very small shallow internal diameters to be measured at 3 points, thanks to an electronic calculation function.
- Calibration using 2 rings supplied with the bench
- Table with fine height adjustment up to 3 mm with mini digital indicator for precise movement control
- Available in 5 versions :
  - 808-1335: version for measuring internal diameters 0.8 to 1.3 mm
  - 808-1336: execution for measuring internal diameters 1.3 to 2.5 mm
  - 808-1337: execution for measuring internal diameters 2.5 to 4 mm
  - 808-1338: execution for measuring internal diameters 4 to 8 mm
  - 808-1339: execution for measuring internal diameters 8 to 12.5 mm



SWISS MADE

Built-in Bluetooth

USB

PROXIMITY

WATER RESISTANT

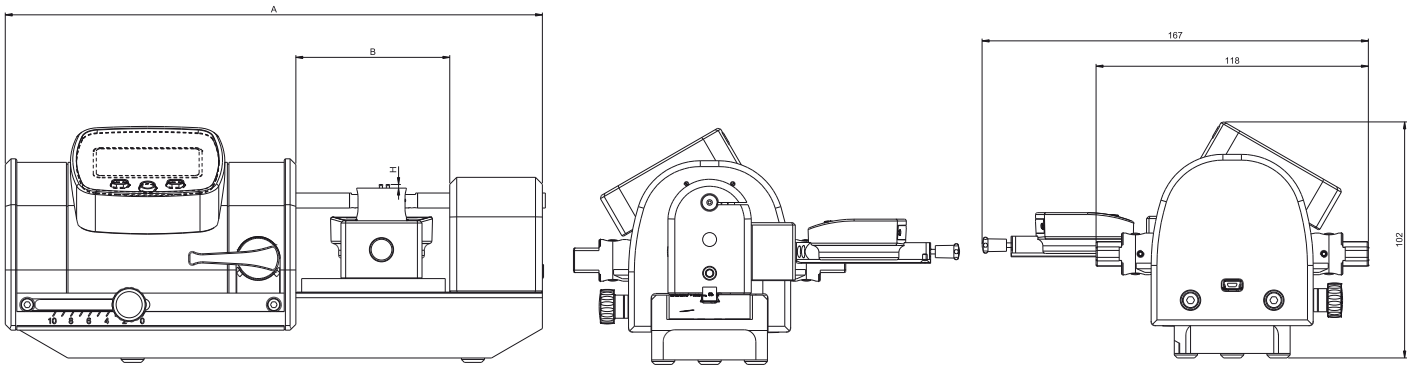
IP67

Bench table

PS16 V2 3-Points

DIMENSIONAL DRAWINGS

SMART



TECHNICAL SPECIFICATIONS

Internal measurement		**808-1335**	**808-1336**	**808-1337**	**808-1338**	**808-1339**
Max. Capacity C	mm	Ø0.8-1.3	Ø1.3-2.5	Ø2.5-4.0	Ø4.0-8.0	Ø8.0-12.5
Max. Error	µm	1.5				
Repeatability	µm	1				
Resolution	µm	0.1				
Measuring force (Adjustable)	N	0.1 - 0.6[1)]				
Weight	kg	4.1				
Data output		Bluetooth® wireless technology / RS232 / USB				
Anvils clamping dimension	mm	Ø1.5				
A	mm	232				
B	mm	60				

[1)] ± 20%

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Adapter for Lithium battery CR2032
- Instruction manual
- Calibration certificate
- Table and anvils according to technical specification
- Mini indicator and 2 setting rings included
- Dust cover

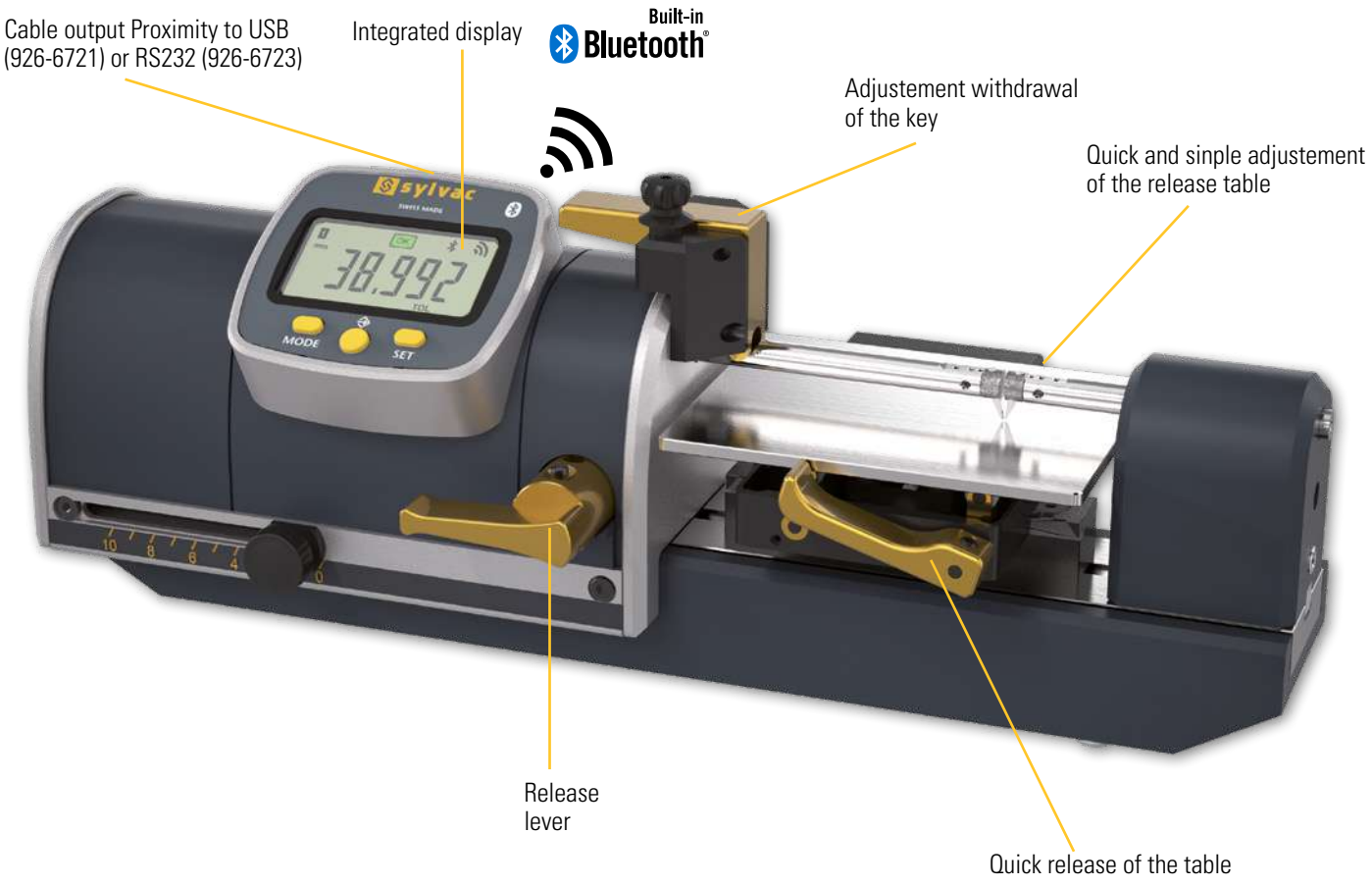
Bench table

PS16 V2 Goutte

DESCRIPTION

SMART

- Measuring bench similar to the PS16 V2 bench but equipped with a table and anvils set specially designed to measure small pivots (called drops in the watch industry) on watch plates.
- Equipped with height-adjustable table, quick-release lever and key removal system
- Delivered complete and ready to use for this particular application



SWISS MADE

Built-in Bluetooth

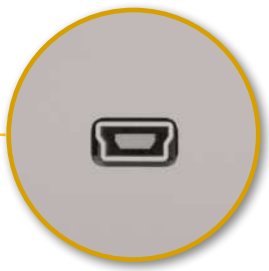
USB

PROXIMITY

WATER RESISTANT

IP67

Cable output mini-USB to USB (926-6001)

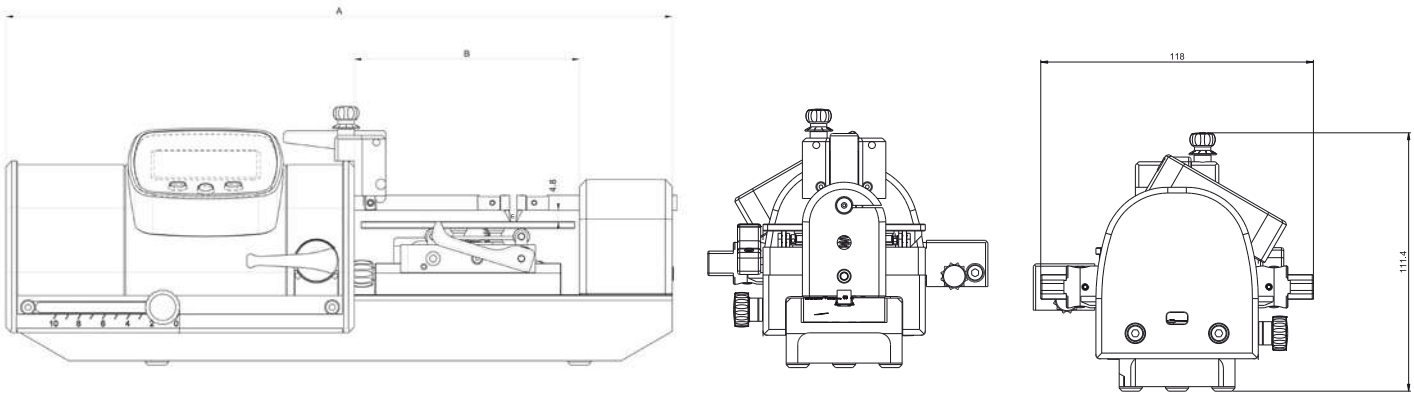


Bench table

PS16 V2 Goutte

DIMENSIONAL DRAWINGS

SMART



TECHNICAL SPECIFICATIONS

External measurement		**808-5213**	**808-5413**
Max. Capacity C	mm	25	50
Quick clearance	mm	7	
Measuring range E	mm	3	
Resolution	µm	0.1	
Max. Error	µm	2.5	3.5
Repeatability	µm	0.5	
Table dimensions (lxL)	mm	58x70	92x70
Measuring force (Adjustable)	N	0.1 - 0.6[1)]	
Weight	kg	4.0	4.7
Output data		Bluetooth® wireless technology / RS232 / USB	
A	mm	232	287
B	mm	66	97

[1)] ± 20%

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Adapter for Lithium battery CR2032
- Instruction manual
- Calibration certificate
- Table and anvils according to specification
- Dust cover

Bench table PS16 V2

TABLES, PLATES AND LAPPING

N°	Designation	PS16 V2 25	PS16 V2 50	PS16 V2 LV	3 points	Goutte
808-2190	Supporting table XYZ	•	•			
808-2302	Supporting table adjustable XZ	•	•			

ACCESSORIES

N°	Designation	PS16 V2 25	PS16 V2 50	PS16 V2 LV	3 points	Goutte
908-2194	Digital indicator holder (display height / depth)			•		
908-2198	Replacement lapping stone for 908-2199	•	•			•
908-2199	Lapping device (3 stones and lapping liquid included)	•	•			•
808-2196	Setting ring Ø20mm			•		
808-2197	Setting ring Ø30mm			•		

Lapping device

- Device for lapping the anvils on the PS15 BH, PS16 V2 and PS17 measuring benches, enabling perfect parallelism of the anvils for greater measuring accuracy.
- Set consisting of a movable element with linear guide and a motorised rotary drive system for the honing stone
- Delivered complete with 3 honing stones and a bottle of honing liquid.

ANVILS

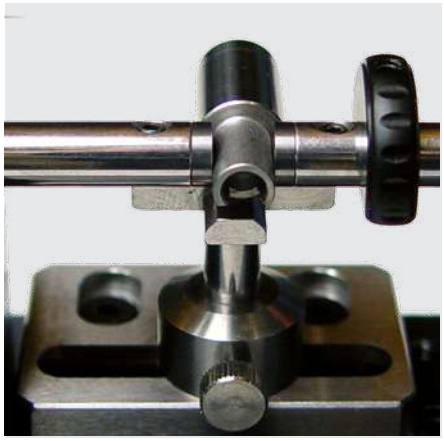
Compatible anvils list at the end of this chapter.

Bench table

PS16 V2

APPLICATIONS

Internal measurement in 2 – points with auto-centering of the part on LVS 50



External measurement with anvils Ø 6.5 and XYZ table

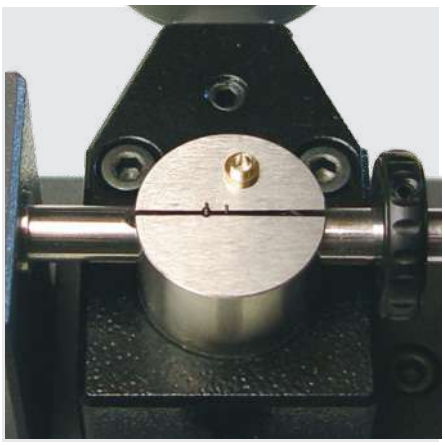
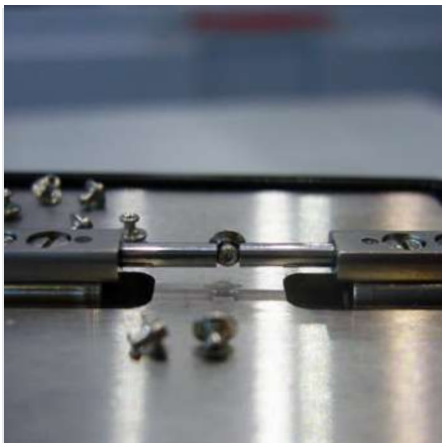


Table and anvils for internal measurement in 3 - points 1.3 - 2.5 mm

Table with adjustable plate (height). Different Ø plates available



Measurement of a small external diameter

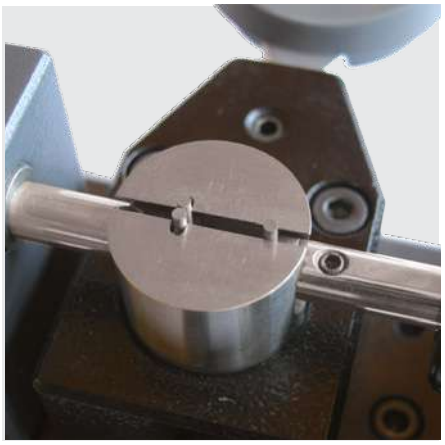


Table and anvils for internal measurement in 3 - points 2.5 - 4 mm

Internal measurement in 3 – points

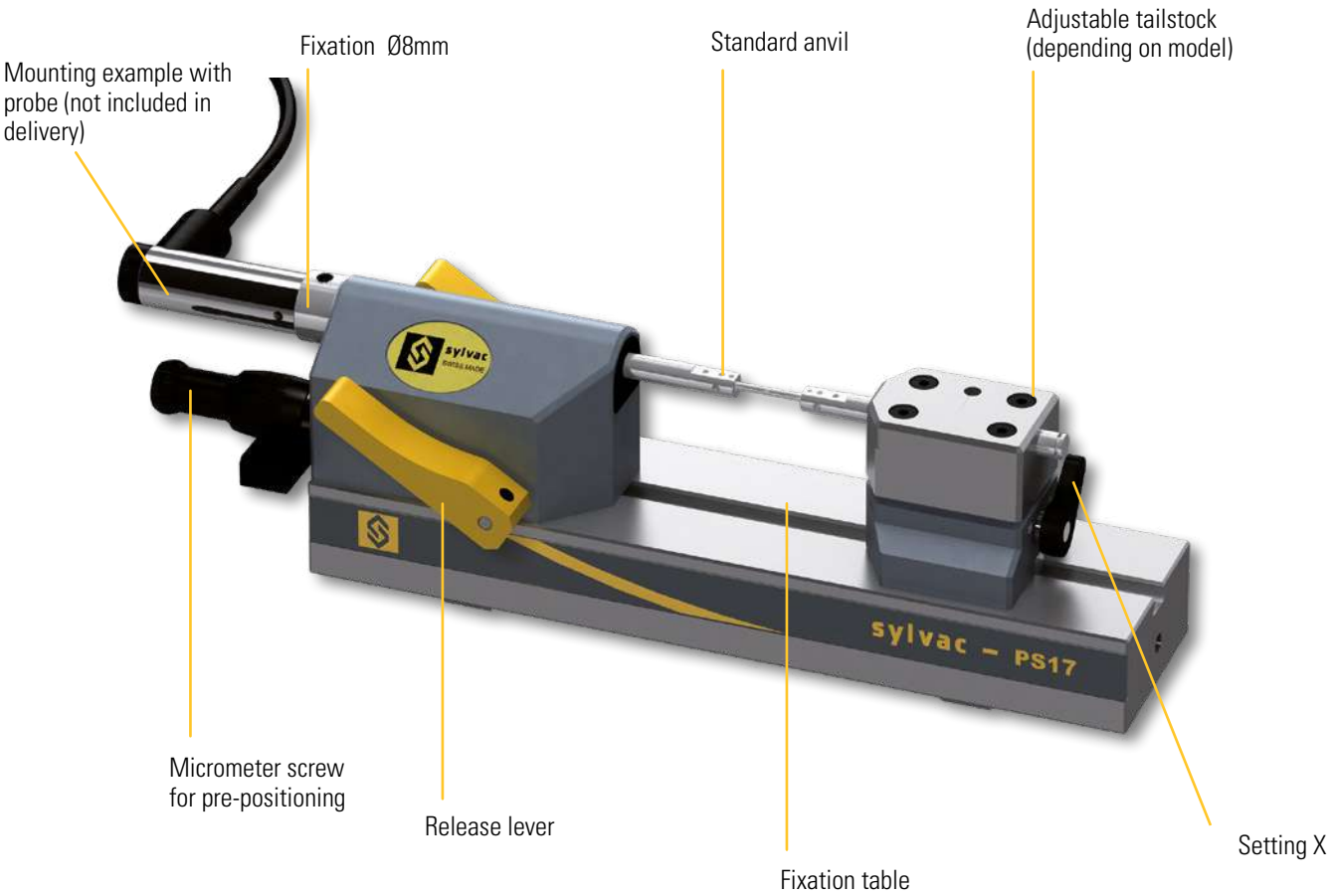
Measurement with PS16 LV

Measurement with PS16 LV

Bench table PS17 VS

DESCRIPTION

- Horizontal precision bench for measuring small external dimensions similar to the PS15 bench, but with a tailstock.
- Can be equipped with either a digital digital indicator or a Sylvac measuring probe.
- Robust cast iron construction
- 2 ergonomic levers for moving the movable axis with ball-bearing guide
- Equipped with a micrometric screw to control the recoil of the mobile axis.
- Compatible with Sylvac Ø 1.5 mm and Cary type anvils
- Supplied with hard metal measuring anvils Ø 1.5 mm
- Adjustable measuring force 0.2-1.0 N
- Measuring capacity 37 mm, measuring range 10 mm

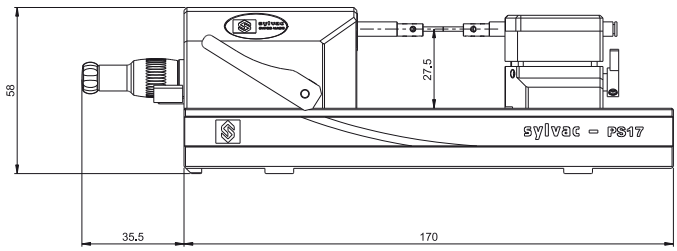


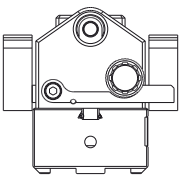
SWISS MADE

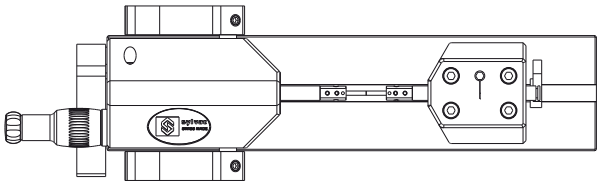
Bench table

PS17 VS

DIMENSIONAL DRAWING







TECHNICAL SPECIFICATIONS

		908-1242
Type		VS [1]
Measuring system		at choice [2]
Tailstock adjustable in Z ±1.75 mm		●
Measurement capacity C	mm	37
Measuring scale	mm	10
Adjustable measuring force	N	0.2 - 1.0
Weight	kg	1.4
Clamping anvils Ø 1.5 mm		●
Compatibility with Cary		●
Micrometer screw		●

[1] Standard delivery with anvils Ø 1.5 mm
[2] No-included on delivery

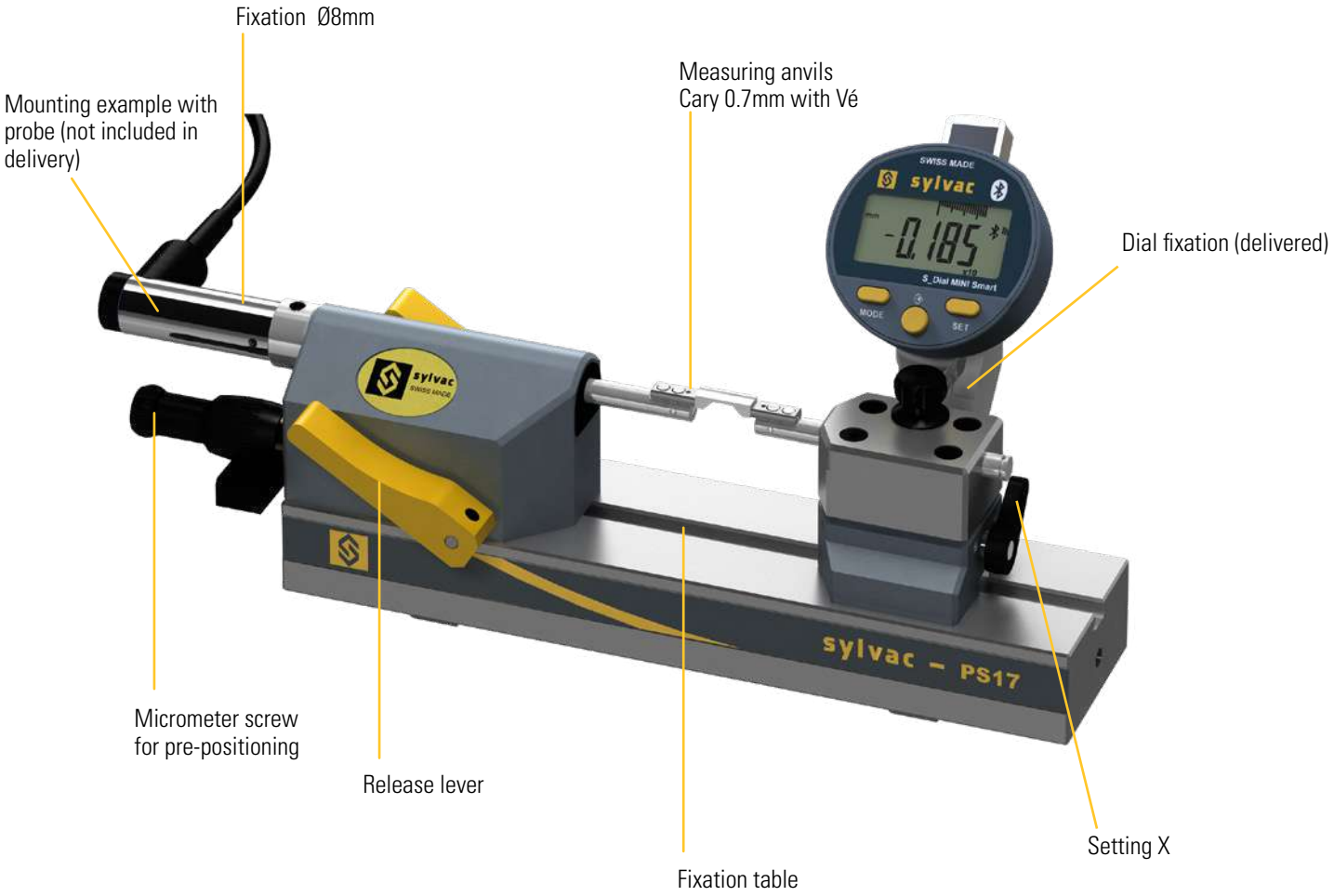
STANDARD DELIVERY

- Instrument according to technical specifications
- Instruction manual
- Measuring anvils Ø 1.5 mm (908-2175)
- Dust cover

Bench table PS17 Entre-portée

DESCRIPTION

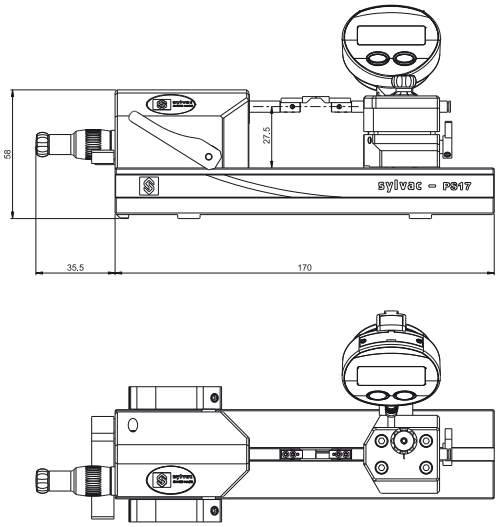
- Measuring bench with great flexibility of use for external dimensions
- Tailstock adjustable in X axis and in Z
- Mini indicator to display the position in Z axis (height) of the tailstock
- Delivered with carbide anvils 0.7mm with 90°V for the measure of distance width
- Accurate micrometer screw for pre-positioning
- Compatibility with Sylvac anvils (Ø1.5mm) and Cary type anvils
- Several accessories available

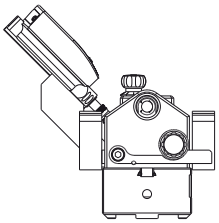


SWISS MADE

Bench table PS17 Entre-portée

DIMENSIONAL DRAWINGS





TECHNICAL SPECIFICATIONS

		908-1244
Type		VS
Measuring system		at choice [1]
Tailstock adjustable in Z ±1.75 mm		●
Measurement capacity C	mm	0 - 37
Measurement scale	mm	0 - 10
Measurement force	N	1
Working temperature (storage)	°C	5 - 40 (-10 - 60)
Weight	kg	1.4
Cary Compatibility		●
Micrometer screw		●

[1] No-included on delivery

STANDARD DELIVERY

- Instrument according to technical specifications
- Instruction manual
- Measuring anvils Cary 0.7mm with Vé (908-2220)
- Mini digital indicator
- Dust cover

Bench table PS17

TABLES, PLATES AND LAPPING

N°	Designation	PS17 VS / VP
908-2290	Supporting table adjustable XYZ	•
908-2301	Supporting table adjustable XZ	•
908-2296	Floating table	•

ACCESSORIES

N°	Designation	PS17 VS / VP
908-2310	Kit for low and strong measuring force	•
908-2198	Replacement lapping stone for 908-2199	•
908-2199	Lapping device (3 stones and lapping liquid included)	•

Lapping device

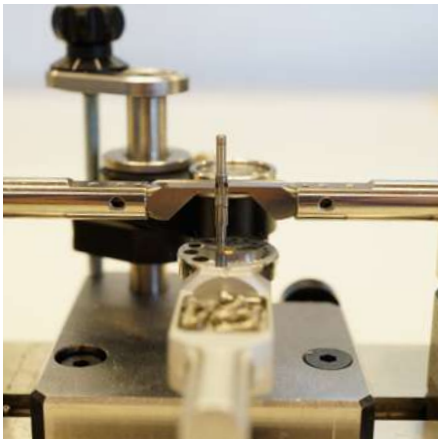
- Device for lapping the anvils on the PS15 BH, PS16 V2 and PS17 measuring benches, enabling perfect parallelism of the anvils for greater measuring accuracy.
- Set consisting of a movable element with linear guide and a motorised rotary drive system for the honing stone
- Delivered complete with 3 honing stones and a bottle of honing liquid.

ANVILS

Compatible anvils list at the end of this chapter.

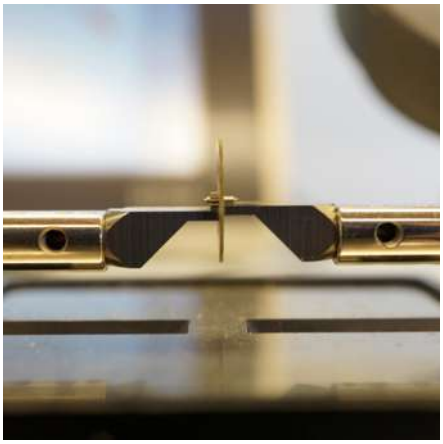
Bench table PS17

APPLICATIONS STANDARD



Measure of a small part on a floating table

Multifunctional control station



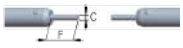
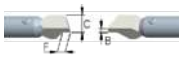
Measure of a distance width with the Z axis adjustable tailstock.

Entre-portée measurement

Entre-portée measurement

ANVILS

Anvils Ø1.5

	N°	Designation	B	F	C	PS15 BH	PS15 BV	PS15 BV+	PS16 V2	PS16 V2 LV	PS 17
	908-2175	Cylindrical anvils TC Ø 1.5 mm	-	8	Ø 1.5	●		●	●		●
	908-2176	Cylindrical anvils TC Ø 2 mm	-	8	Ø 2	●		●	●		●
	908-2177	Cylindrical anvils TC Ø 6.5 mm	-	2	Ø 6.5				●		
	908-2174	Knife-shaped anvils TC 0.7 mm	0.70	2.2	4	●		●	●		●
	908-2178	Knife-shaped anvils TC 0.4 mm	0.40	2.2	4	●		●	●		●
	908-2179	Knife-shaped anvils TC 0.3 mm	0.30	2.2	4	●		●	●		●
	908-2180	Knife-shaped anvils standard TC 0.2 mm	0.20	2.2	4	●		●	●		●
	908-2181	Knife-shaped anvils standard TC 0.14 mm	0.14	2.2	4	●		●			●
	908-2182	Knife-shaped anvils standard TC 0.1 mm	0.10	2.2	4	●		●			●
	908-2201	Knife-shaped anvils TC 0.7 mm/V	0.70	2.2	4	●		●	●		●
	908-2202	Knife-shaped anvils standard TC 1.5 mm	1.5	2.2	4	●		●	●		●

Bench table

PS15/PS16/PS17

ANVILS

Anvils Cary

	N°	Designation	B	F	C	PS15 BH	PS15 BV	PS15 BV+	PS16 V2	PS 17
	908-2214	Knife-shaped anvils TC 0.10 mm	0.10	2.2	4	●				●
	908-2221	Knife-shaped anvils TC 0.12 mm	0.12	2.2	4	●				●
	908-2215	Knife-shaped anvils TC 0.14 mm	0.14	2.2	4	●				●
	908-2213	Knife-shaped anvils TC 0.15 mm	0.15	2.2	4	●			●	●
	908-2216	Knife-shaped anvils TC 0.20 mm	0.20	2.2	4	●			●	●
	908-2217	Knife-shaped anvils TC 0.30 mm	0.30	2.2	4	●			●	●
	908-2218	Knife-shaped anvils TC 0.40 mm	0.40	2.2	4	●			●	●
	908-2219	Knife-shaped anvils TC 0.70 mm	0.70	2.2	4	●			●	●
	908-2220	Knife-shaped anvils TC 0.70 mm/vé	0.70	2.2	4	●			●	●
	908-2223	Knife-shaped anvils TC 1.5 mm	-	6	Ø1.5	●			●	●
	908-2224	Cylindrical anvils TC Ø 1.5 mm	-	6	Ø2	●			●	●
	908-2225	Cylindrical anvils TC Ø 2.0 mm	-	6	Ø3	●			●	●
	908-2222	Beveled anvils TC 1.5x0.05 mm	1.50	2.2	4	●			●	●

OPTICAL MEASURING MACHINES

The strategic diversification operated by Sylvac a few years ago led us to the development of optical machines that meets today's needs perfectly. Our SCAN machines, designed for the ultra-fast measurement of cylindrical parts, allow a multitude of elements that previously required countless pieces of equipment to be inspected in the workshop in a matter of seconds, with measurements which could have taken several hours before. The fact that our SCAN optical machines can be integrated into automation lines and communicate with the controls of production machines is also a perfect match for the Industry 4.0 model.
In this chapter you will also find our VISIO range of video measuring machines, which enable most industrial components to be checked quickly using a direct live image of the part displayed in the software.

Optical measurement

SYLVAC-SCAN

DESCRIPTION

S25 & S25T

- Vertical optical measuring machine for static and dynamic measurement of various elements on small cylindrical parts.
- The parts can be mounted between two centres or held in place using various accessories. Attractive design and robust construction with many new features: New touch screen control panel for easy operation directly at the work-place, bi-telecentric optical system, high resolution camera, precision rotary headstock with integrated and protected daily standard, quick and easy accessory changing system, integrated temperature sensors, dynamic LED indicator of the general status of the measured part (GO/NG) and operator messages. Equipped with an exclusive optics tilting system.
- Machines specially designed to measure threads such as, parallel, trapezoidal, conical, round, square, conical, worms, ball screws, bone screws, dental implants, etc.
- Reflex SCAN+ concept for measuring parts without prior programming at the touch of a button
- Delivered complete with a PC and the Reflex SCAN+ software, which allows a multitude of elements to be measured easily and intuitively.
- The machine is delivered fully equipped «Automation Ready» as standard.

Automation Ready

Unique helix tilting system by Sylvac, for more comprehensive thread measurements.

SWISS MADE

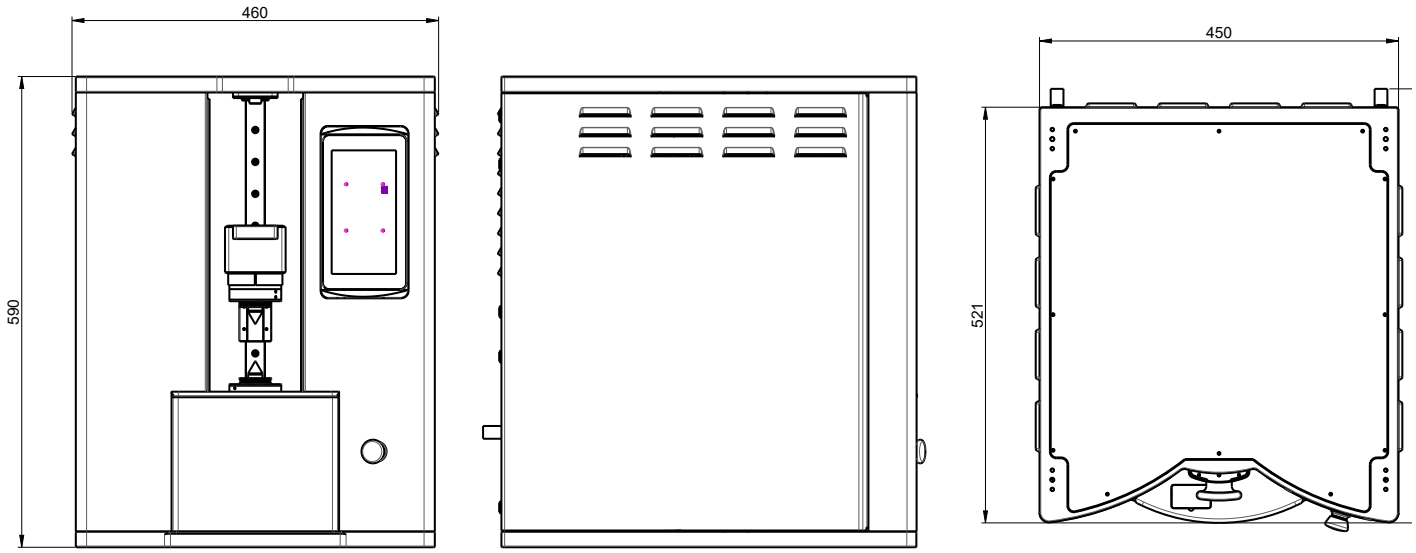
J

Optical measurement

SYLVAC-SCAN

DIMENSIONAL DRAWINGS

S25 & S25T



TECHNICAL SPECIFICATIONS

		902-4020*		902-4025	
		Sylvac SCAN S25		Sylvac SCAN S25T	
		Diameter	Length	Diameter	Length
Measuring range	mm	26	200	26	200
Resolution up to	mm	0.0001	0.0001	0.0001	0.0001
Max. error	µm	0.9 +(D[mm]/100) µm [1]	2.5 +(L[mm]/200) µm [1]	0.9 +(D[mm]/100) µm [1]	2.5 +(L[mm]/200) µm [1]
Repeatability 2δ	µm	0.5	0.8	0.5	0.8
Holding capacity	mm	51	200	51	200
Tilting for thread measurement		-		● 30°	
Headstock		High precision rotary			
Axial move speed	mm/s	Up to 100mm/s			
Max. weigth of part	kg	3			
Machine's weight	kg	73			

[1] 20° C ± 1° C

STANDARD DELIVERY

- Instrument according to technical specifications
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Accessories : 2x 902-6259 ISO / MK2 adapter, 2x 902-6202, 902-6161 & 902-6212
- Manual

J

Optical measurement

SYLVAC-SCAN

DESCRIPTION

S65 & S65T

- Vertical optical measuring machine for static and dynamic measurement of various elements on cylindrical parts up to Ø65mm and length 350mm
- The parts can be mounted between centres or held in place using various accessories
- Next generation machine incorporating the latest optical and imaging technology
- Rapid measurement with enhanced speed and accuracy
- 8" Touch screen panel for operator control directly on the shopfloor
- Dynamic LED lighting for measurement status
- Integrated calibration master with temperature sensors for environmental control
- Retractable roof for easy top loading of the heavy parts
- Optional tilt axis to facilitate measurement of threads such as, parallel, trapezoidal, conical, round, worms, ball screws, bone screws, etc.
- Reflex SCAN+ concept for measuring parts without prior programming at the touch of a button
- Delivered complete with a PC and the Reflex SCAN+ software
- The machine is delivered fully equipped «Automation Ready» as standard

Unique helix tilting system by Sylvac, for more comprehensive thread measurements.

Automation Ready

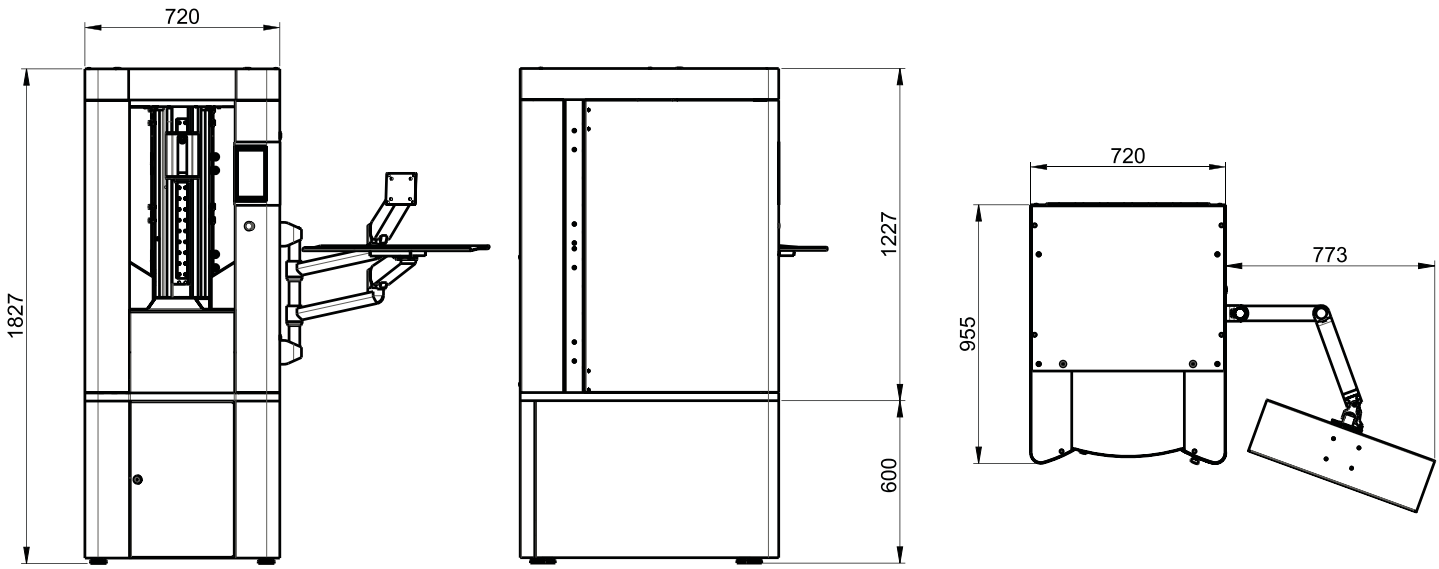
J

Optical measurement

SYLVAC-SCAN

DIMENSIONAL DRAWINGS

S65 & S65T



TECHNICAL SPECIFICATIONS

		902-4260		902-4265	
		Sylvac SCAN S65		Sylvac SCAN S65T	
		Diameter	Length	Diameter	Length
Measuring range	mm	65	350	65	350
Resolution up to	mm	0.0001	0.0001	0.0001	0.0001
Max. error	µm	1 + (D[mm]/100) µm [1]	3 + (L[mm]/200) µm [1]	1 + (D[mm]/100) µm [1]	3 + (L[mm]/200) µm [1]
Repeatability 2**δ**	µm	0.5	< 1	0.5	< 1
Holding capacity	mm	200	315	200	315
Headstock		Rotary headstock for dynamic measurements			
Tilting for thread measurement		-		• 30°	
Axial move speed	mm/s	Up to 160mm/s			
Max. weigth of part	kg	30			
Machine's weight	kg	420			

[1] 20° C ± 1° C

STANDARD DELIVERY

- Instrument according to technical specifications, delivered with screen support
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Accessories : 2x 902-6259 ISO / MK2 adapter, 2x 902-6202, 902-6161 & 902-6212
- Manual

J

Optical measurement

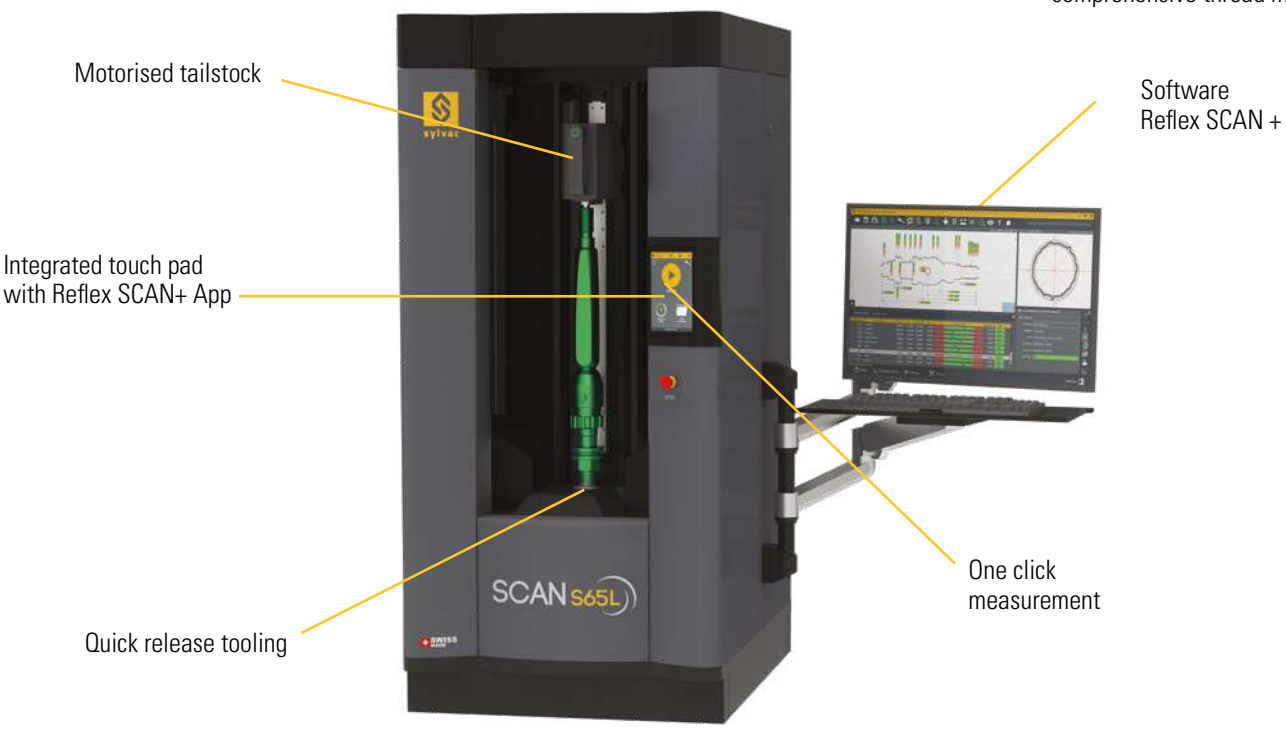
SYLVAC-SCAN

DESCRIPTION

S65L & S65LT

- Vertical optical measuring machine for static and dynamic measurement of various elements on cylindrical parts up to Ø65mm and length 700mm
- The parts can be mounted between centres or held in place using various accessories
- Next generation machine incorporating the latest optical and imaging technology
- Rapid measurement with enhanced speed and accuracy
- 8" Touch screen panel for operator control directly on the shopfloor
- Dynamic LED lighting for measurement status
- Integrated calibration master with temperature sensors for environmental control
- Retractable roof for easy top loading of the heavy parts
- Optional tilt axis to facilitate measurement of threads such as, parallel, trapezoidal, conical, round, worms, ball screws, bone screws, etc.
- Reflex SCAN+ concept for measuring parts without prior programming at the touch of a button
- Delivered complete with a PC and the Reflex SCAN+ software
- The machine is delivered fully equipped «Automation Ready» as standard

Unique helix tilting system by Sylvac, for more comprehensive thread measurements.



Automation Ready

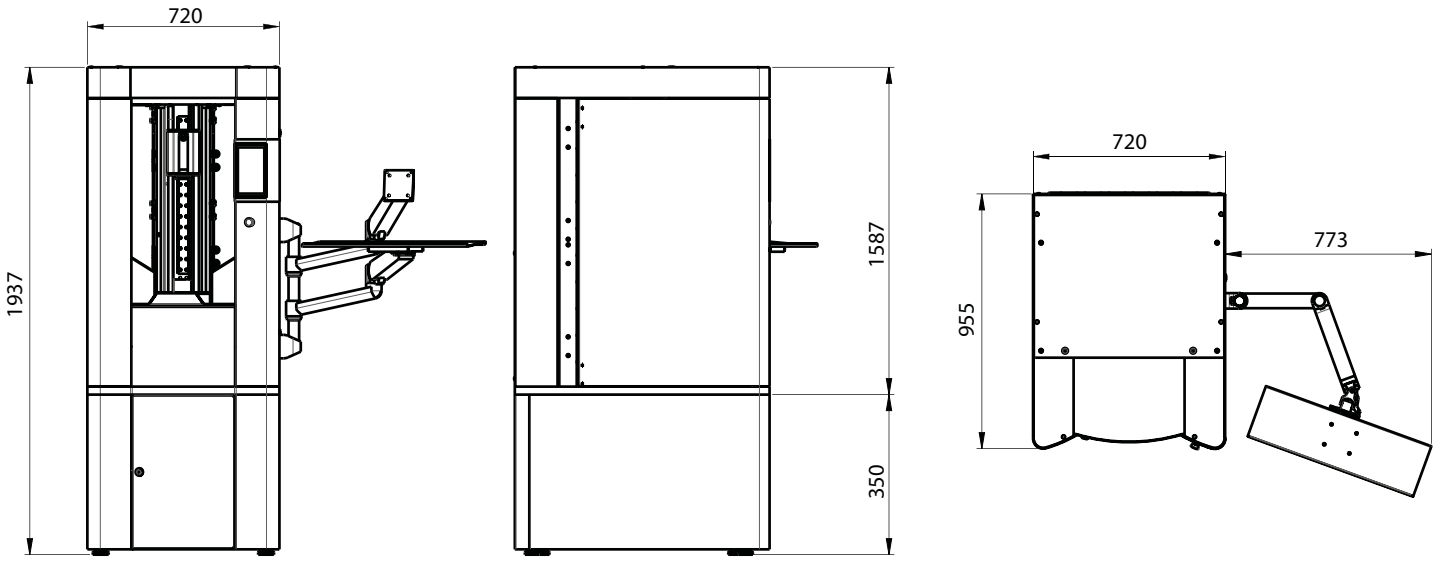
J

Optical measurement

SYLVAC-SCAN

DIMENSIONAL DRAWINGS

S65L & S65LT



TECHNICAL SPECIFICATIONS

		902-4262		902-4267	
		Sylvac SCAN S65L		Sylvac SCAN S65LT	
		Diameter	Length	Diameter	Length
Measuring range	mm	65	700	65	700
Resolution up to	mm	0.0001	0.0001	0.0001	0.0001
Max. error	µm	1 + (D[mm]/100) µm [1]	3 + (L[mm]/200) µm [1]	1 + (D[mm]/100) µm [1]	3 + (L[mm]/200) µm [1]
Repeatability 2**δ**	µm	0.5	< 1	0.5	< 1
Holding capacity	mm	200	710	200	710
Headstock		Rotary headstock for dynamic measurements			
Tilting for thread measurement		-		● 30°	
Axial move speed	mm/s	Up to 160mm/s			
Max. weigth of part	kg	30			
Machine's weight	kg	500			

[1] 20° C ± 1° C

STANDARD DELIVERY

- Instrument according to technical specifications, delivered with screen support
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Accessories : 2x 902-6259 ISO / MK2 adapter, 2x 902-6202, 902-6161 & 902-6212
- Manual

J

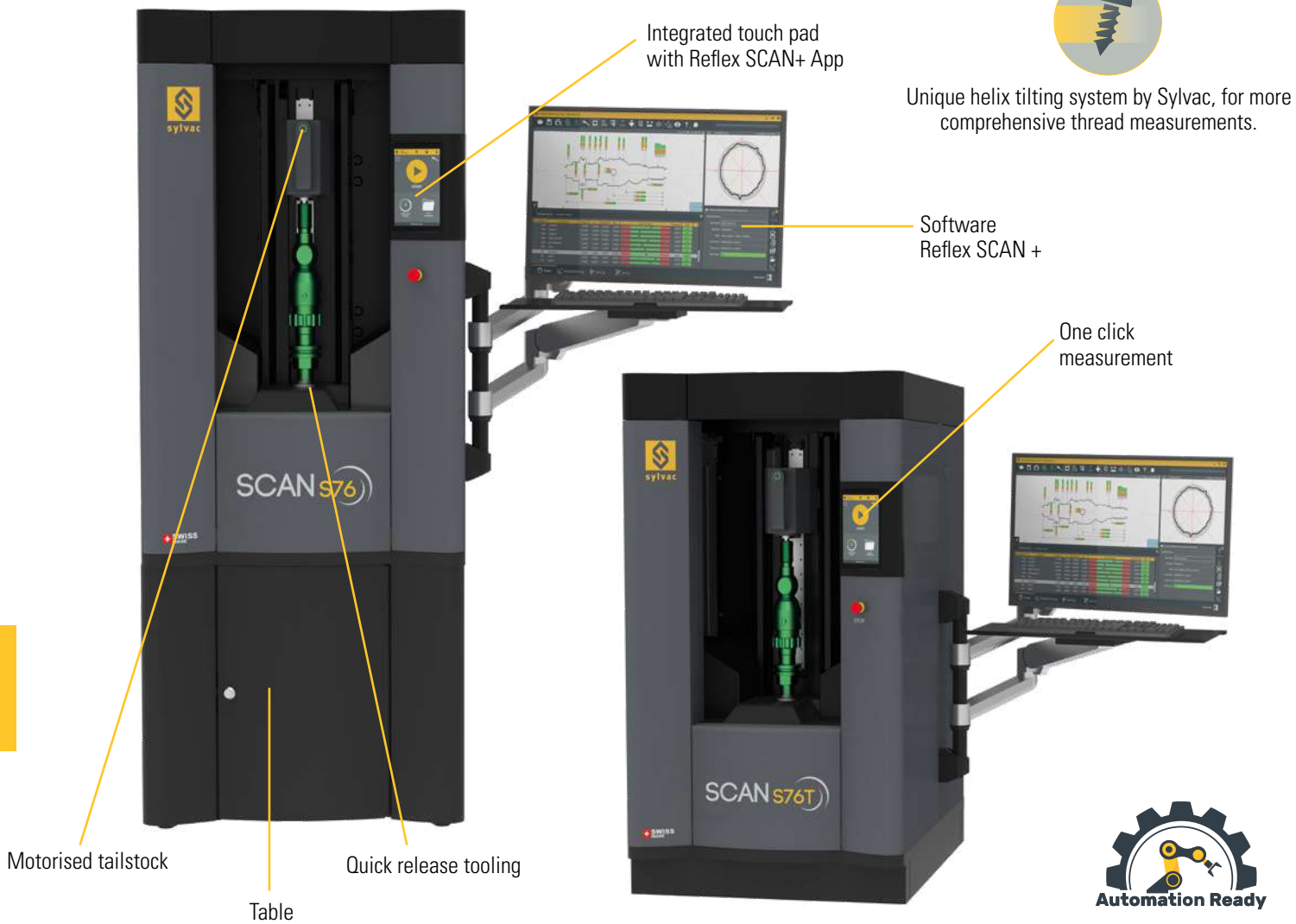
Optical measurement

SYLVAC-SCAN

DESCRIPTION

S76 & S76T

- Vertical optical measuring machine for static and dynamic measurement of various elements on cylindrical parts up to Ø76mm and length 350mm
- The parts can be mounted between centres or held in place using various accessories
- Next generation machine incorporating the latest optical and imaging technology
- Rapid measurement with enhanced speed and accuracy
- 8" Touch screen panel for operator control directly on the shopfloor
- Dynamic LED lighting for measurement status
- Integrated calibration master with temperature sensors for environmental control
- Retractable roof for easy top loading of the heavy parts
- Optional tilt axis to facilitate measurement of threads such as, parallel, trapezoidal, conical, round, worms, ball screws, bone screws, etc.
- Reflex SCAN+ concept for measuring parts without prior programming at the touch of a button
- Delivered complete with a PC and the Reflex SCAN+ software
- The machine is delivered fully equipped «Automation Ready» as standard



Unique helix tilting system by Sylvac, for more comprehensive thread measurements.

Automation Ready

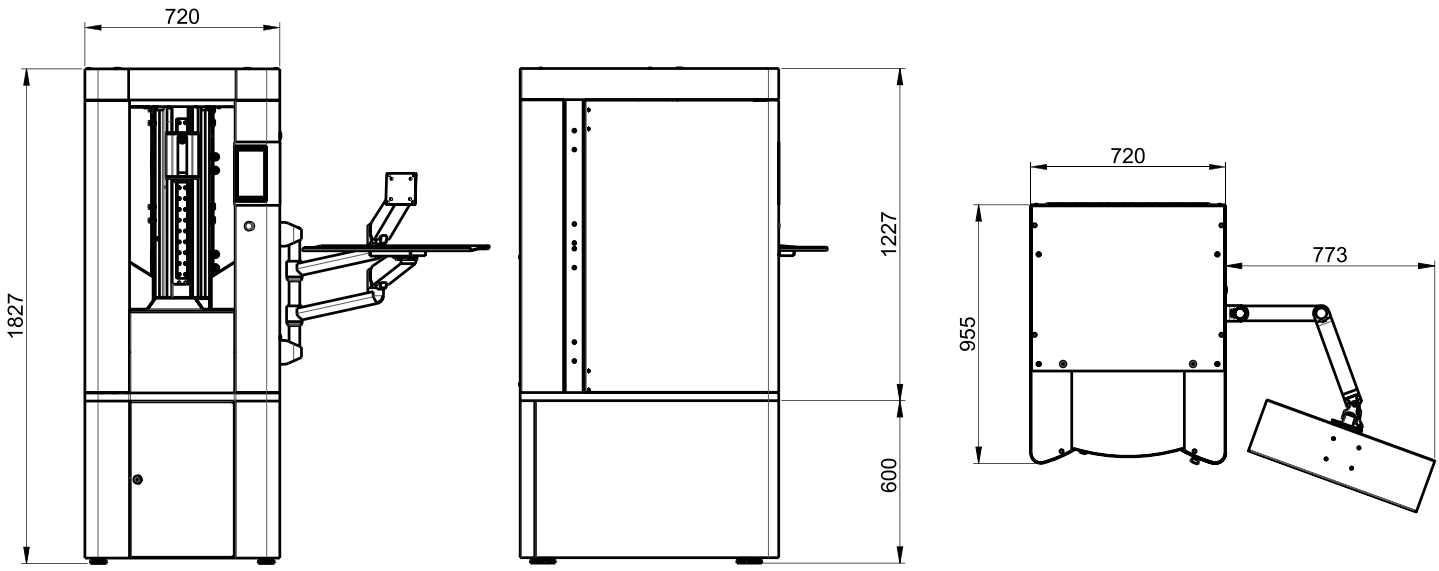
J

Optical measurement

SYLVAC-SCAN

DIMENSIONAL DRAWINGS

S76 & S76T



TECHNICAL SPECIFICATIONS

		902-4270		902-4275	
		Sylvac SCAN S76		Sylvac SCAN S76T	
		Diameter	Length	Diameter	Length
Measuring range	mm	76	350	76	350
Resolution up to	mm	0.0001	0.0001	0.0001	0.0001
Max. error	µm	1 + (D[mm]/100) µm [1]	3 + (L[mm]/200) µm [1]	1 + (D[mm]/100) µm [1]	3 + (L[mm]/200) µm [1]
Repeatability 2**δ**	µm	0.5	< 1	0.5	< 1
Holding capacity	mm	200	315	200	315
Headstock		Rotary headstock for dynamic measurements			
Tilting for thread measurement		-		• 30°	
Axial move speed	mm/s	Up to 160mm/s			
Max. weigth of part	kg	30			
Machine's weight	kg	420			

[1] 20° C ± 1° C

STANDARD DELIVERY

- Instrument according to technical specifications, delivered with screen support
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Accessories : 2x 902-6259 ISO / MK2 adapter, 2x 902-6202, 902-6161 & 902-6212
- Manual

J

Optical measurement

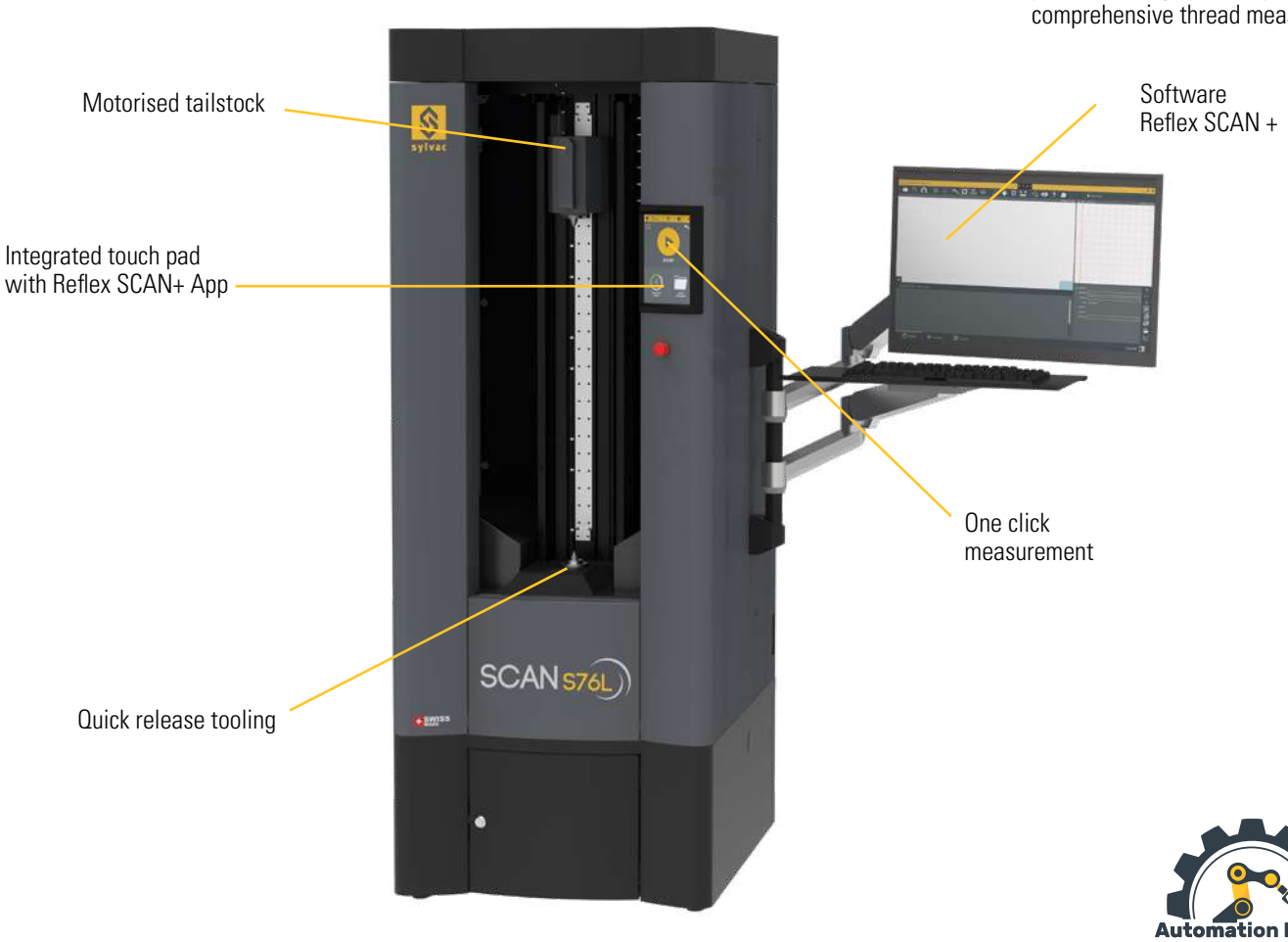
SYLVAC-SCAN

DESCRIPTION

S76L & S76LT

- Vertical optical measuring machine for static and dynamic measurement of various elements on cylindrical parts up to Ø76mm and length 700mm
- The parts can be mounted between centres or held in place using various accessories
- Next generation machine incorporating the latest optical and imaging technology
- Rapid measurement with enhanced speed and accuracy
- 8" Touch screen panel for operator control directly on the shopfloor
- Dynamic LED lighting for measurement status
- Integrated calibration master with temperature sensors for environmental control
- Retractable roof for easy top loading of the heavy parts
- Optional tilt axis to facilitate measurement of threads such as, parallel, trapezoidal, conical, round, worms, ball screws, bone screws, etc.
- Reflex SCAN+ concept for measuring parts without prior programming at the touch of a button
- Delivered complete with a PC and the Reflex SCAN+ software
- The machine is delivered fully equipped «Automation Ready» as standard

Unique helix tilting system by Sylvac, for more comprehensive thread measurements.



Automation Ready

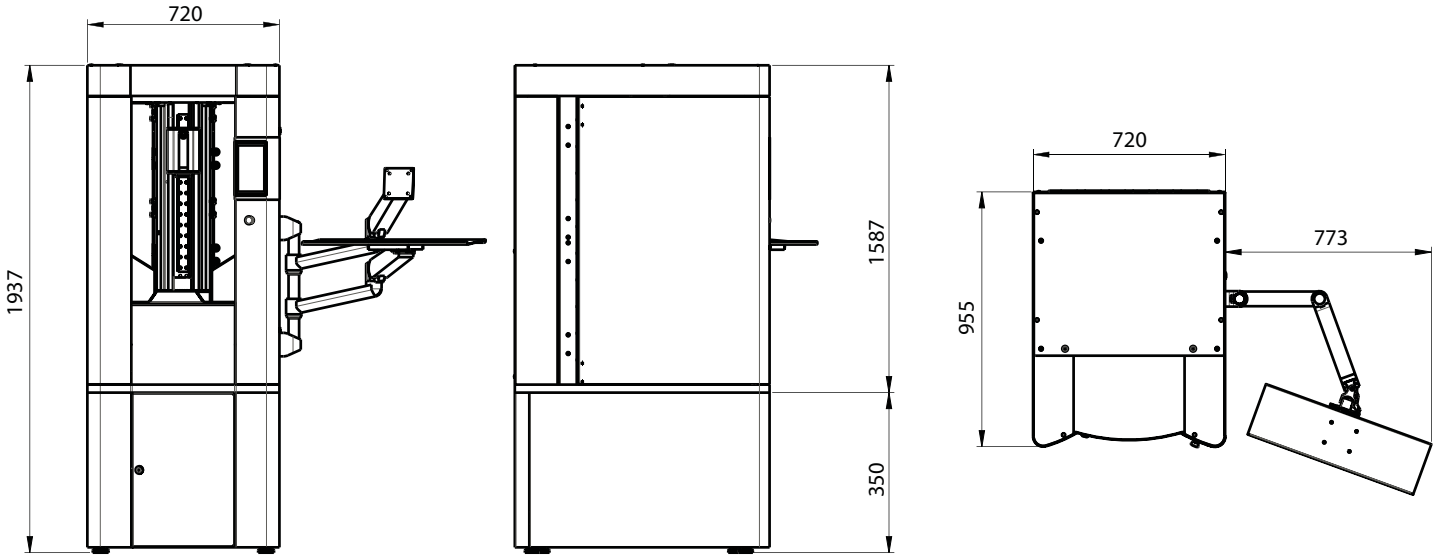
J

Optical measurement

SYLVAC-SCAN

DIMENSIONAL DRAWINGS

S76L & S76LT



TECHNICAL SPECIFICATIONS

		902-4272		902-4277	
		Sylvac SCAN S76L		Sylvac SCAN S76LT	
		Diameter	Length	Diameter	Length
Measuring range	mm	76	700	76	700
Resolution up to	mm	0.0001	0.0001	0.0001	0.0001
Max. error	µm	1 + (D[mm]/100) µm [1]	3 + (L[mm]/200) µm [1]	1 + (D[mm]/100) µm [1]	3 + (L[mm]/200) µm [1]
Repeatability 2**δ**	µm	0.5	< 1	0.5	< 1
Holding capacity	mm	200	710	200	710
Headstock		Rotary headstock for dynamic measurements			
Tilting for thread measurement		-		• 30°	
Axial move speed	mm/s	Up to 160mm/s			
Max. weigth of part	kg	30			
Machine's weight	kg	500			

[1] 20° C ± 1° C

STANDARD DELIVERY

- Instrument according to technical specifications, delivered with screen support
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Accessories : 2x 902-6259 ISO / MK2 adapter, 2x 902-6202, 902-6161 & 902-6212
- Manual

J

Optical measurement

SYLVAC-SCAN

DESCRIPTION

S145

- New high-capacity optical measuring machines for static and dynamic measurement of various elements on cylindrical parts.
- The parts can be mounted in between centres or held in place with various accessories.
- Attractive design and sturdy construction with many new features: bi-telecentric optical system, high resolution camera, precision rotary headstock with integrated and protected daily calibration standard, motorised tailstock, quick and easy accessory changing system, integrated temperature sensors, LED indicator of the overall status of the measured part (GO/NG), light barrier automatically stops the machine in case of intrusion, removable roof for easy loading of heavy workpieces up to 100 kg and exceptional precision and repeatability
- Delivered complete with a PC and the Reflex SCAN+ software, which allows a multitude of elements to be measured easily and intuitively.
- Machine delivered fully equipped «Automation Ready» as standard

Automation Ready

LED status light indicator

One click measurement

Software Reflex SCAN +

Table with drawer

SWISS MADE

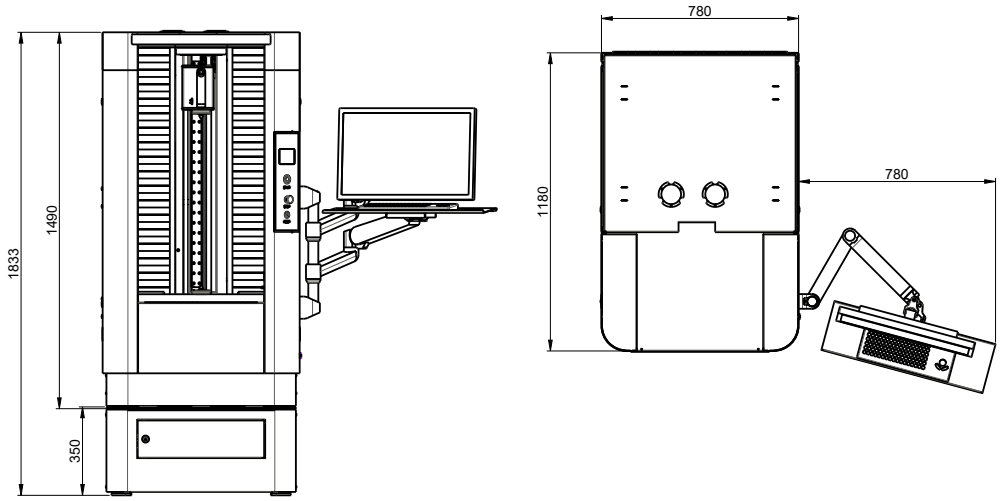
J

Optical measurement

SYLVAC-SCAN

DIMENSIONAL DRAWINGS

S145



TECHNICAL SPECIFICATIONS

		902-4145	
		Sylvac SCAN S145	
		Diameter	Length
Measuring range	mm	145	615
Resolution up to	mm	0.0001	0.0001
Max. error	µm	1.5 + (D[mm]/100) µm [1]	4 + (L[mm]/200) µm [1]
Repeatability 2δ	µm	0.5	1.0
Holding capacity	mm	254	615
Axial positioning speed	mm/s	Up to 160	
Headstock		Rotary headstock for static and dynamic measurements	
Max. weigth of part	kg	100	
Machine's weight	kg	530	

[1] 20° C ± 1° C

STANDARD DELIVERY

- Instrument according to technical specifications
- Adapter for Morse 2 (902-6260)
- Computer with screen, keyboard and mouse
- Table 350mm (700mm optional, 902-6611)
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Manual
- Accessories 902-6210, 902-6380 & Machine stand, with screen & keyboard holder

Optical measurement

SYLVAC-SCAN

DESCRIPTION

S145L

- Optical machine similar to the S145, but in a long version, allowing measurements up to 1’280mm long and 145mm in diameter.
- Machine delivered fully equipped «Automation Ready» as standard

Version L !

LED status light indicator

One click measurement

Automation Ready

Software Reflex SCAN +

SWISS MADE

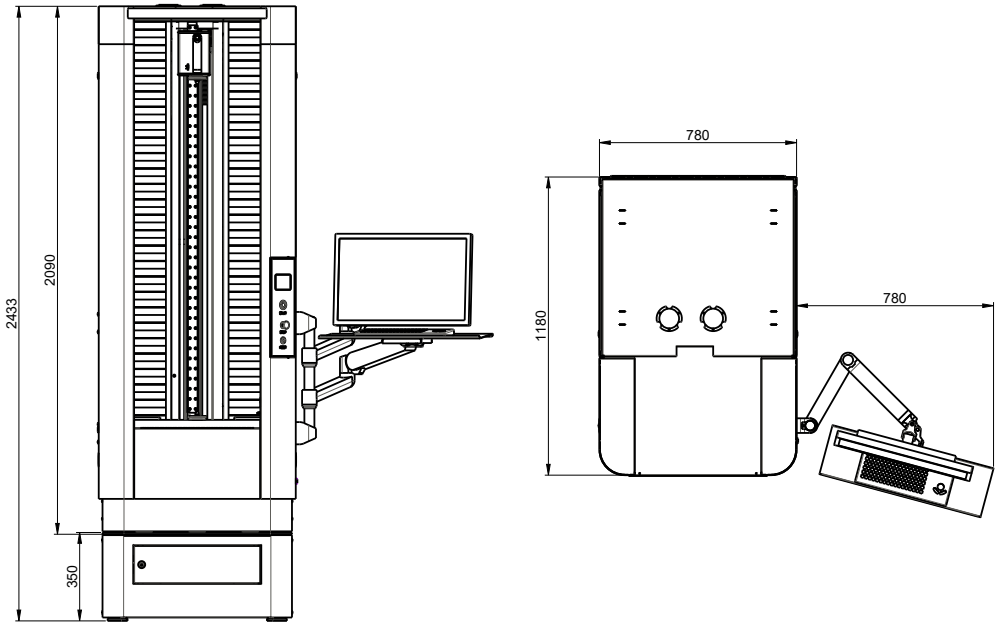
J

Optical measurement

SYLVAC-SCAN

DIMENSIONAL DRAWINGS

S145L



TECHNICAL SPECIFICATIONS

		902-4147	
		Sylvac SCAN S145L	
		Diameter	Length
Measuring range	mm	145	1280
Resolution up to	mm	0.0001	0.0001
Max. error	µm	1.5 + (D[mm]/100) µm [1]	4 + (L[mm]/200) µm [1]
Repeatability 2δ	µm	0.5	1.0
Holding capacity	mm	254	1280
Axial positioning speed	mm/s	Up to 160	
Headstock		Rotary headstock for static and dynamic measurements	
Max. weigth of part	kg	100	
Machine's weight	kg	650	

[1] 20° C ± 1° C

J

STANDARD DELIVERY

- Instrument according to technical specifications
- Adapter for Morse 2 (902-6260)
- Computer with screen, keyboard and mouse
- Table 350mm (700mm optional, 902-6611)
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Manual
- Accessories 902-6210, 902-6380 & Machine stand, with screen & keyboard holder

Optical measurement

SYLVAC-SCAN

DESCRIPTION

S145XL

- Optical machine similar to the S145, but in a ultra long version, allowing measurements up to 1'800mm long and 145mm in diameter.
- Machine delivered fully equipped «Automation Ready» as standard

Version XL !

LED status light indicator

One click measurement

Automation Ready

Software Reflex SCAN +

SWISS MADE

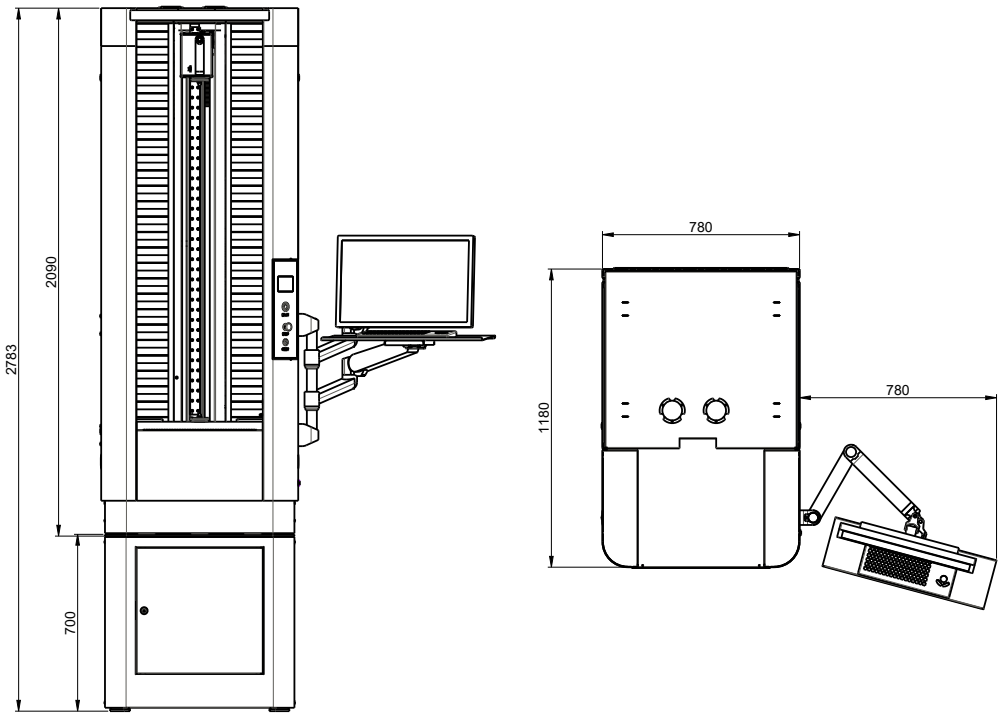
J

Optical measurement

SYLVAC-SCAN

DIMENSIONAL DRAWINGS

S145XL



TECHNICAL SPECIFICATIONS

		902-4148	
		Sylvac SCAN S145XL	
		Diameter	Length
Measuring range	mm	145	1800
Resolution up to	mm	0.0001	0.0001
Max. error	µm	1.5 + (D[mm]/100) µm [1]	4 + (L[mm]/200) µm [1]
Repeatability 2δ	µm	0.5	1.0
Holding capacity	mm	254	1800
Axial positioning speed	mm/s	Up to 160	
Headstock		Rotary headstock for static and dynamic measurements	
Max. weigth of part	kg	100	
Machine's weight	kg	797	

[1] 20° C ± 1° C

J

STANDARD DELIVERY

- Instrument according to technical specifications
- Adapter for Morse 2 (902-6260)
- Computer with screen, keyboard and mouse
- Manual
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Accessories 902-6210, 902-6380 & Machine stand, with screen & keyboard holder

Optical measurement

SYLVAC-SCAN

DESCRIPTION

S145-P, S145L-P, S145XL-P

- New application with 3D probe : the addition of the Renishaw SP25M probe offers a multi- sensor solution for characteristics not visible with optics
- Complete measurement with a single system
- Seamless integration with combined sensor measurements
- Easy programming thanks to user-friendly functions
- Full touch probe scanning capability for measuring form
- Interchangeable probe stylus for increased access
- Automated probe qualification routine
- Typical measurements include : hole and slot size, location and form, roundness, radial and axial runout

Automation Ready

Renishaw SP25M probe

J

Optical measurement

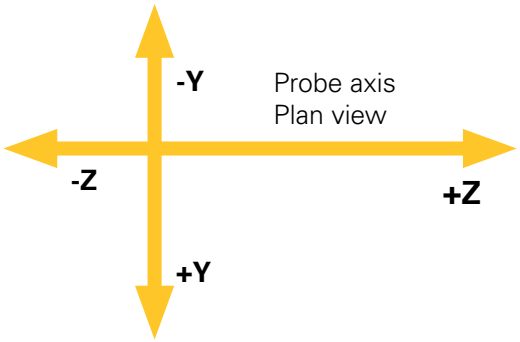
SYLVAC-SCAN

TECHNICAL SPECIFICATIONS

S145-P, S145L-P, S145XL-P

		902-4145-05		902-4147-05		902-4148-05	
		Sylvac SCAN S145-P		Sylvac SCAN S145L-P		Sylvac SCAN S145XL-P	
		Diameter	Length	Diameter	Length	Diameter	Length
Measuring range	mm	145	615	145	1230	145	1750
Resolution up to	mm	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Max. error	µm	Diameter : 1.5 + (D[mm]/100) µm [1] / Length : 4 + (L[mm]/200) µm [1]					
Repeatability 2δ	µm	0.5	1.0	0.5	1.0	0.5	1.0
Holding capacity	mm	200	615	200	1280	200	1800
Axial positioning speed	mm/s	up to 160					
Max. weigth of part	kg	100					
Machine's weight	kg	550		670		817	

[1] 20° C ± 1° C



Touch probe measuring volume			
Axis	S145-P	S145L-P	S145XL-P
PX	615mm	1230mm	1750mm
PY	+60mm / -40mm		
PZ	130mm / -15mm		

TYPICAL MEASUREMENT FEATURES

Holes
- Size/diameter
- Depth
- Location
- Form
- Angular position

Slots/Keyway
- Length
- Width
- Depth
- Symmetry
- Location
- Form
- Angular position

Distances
- Length
- Diameter
- Undercuts*
- Grooves on diameter

Dynamic
- Radial runout
- Axial runout
- Roundness
- Cylindricity

** with appropriate stylus*

STANDARD DELIVERY

- Machine according to technical specifications as standard machines S145, S145L or S145XL
- 1x SM25-1 Scanning module (902-5002)
- 2x SH25-1 Stylus holder (902-5003)
- 1x Ø1.5 mm x L30mm stylus (M3) (902-5010)

Optical measurement

SYLVAC-SCAN

DESCRIPTION

S185L

- New high-capacity optical measuring machine for static and dynamic measurement of various features on cylindrical parts up to Ø85mm and length 1280mm.
- The parts can be mounted in between centres or held in place with various accessories.
- Attractive design and sturdy construction with many features: bi-telecentric optical system, high resolution camera, precision rotary headstock with integrated and protected daily calibration standard, motorised tailstock, quick and easy accessory changing system, integrated temperature sensors, LED indicator of the overall status of the measured part (GO/NG), light barrier automatically stops the machine in case of intrusion, removable roof for easy loading of heavy workpieces up to 100 kg and exceptional precision and repeatability
- Delivered complete with a PC and the Reflex SCAN+ software, which allows a multitude of elements to be measured easily and intuitively.
- Machine delivered fully equipped «Automation Ready» as standard

Automation Ready

One click measurement

Availability Q1 2027

Software Reflex SCAN +

Table with drawer

SWISS MADE

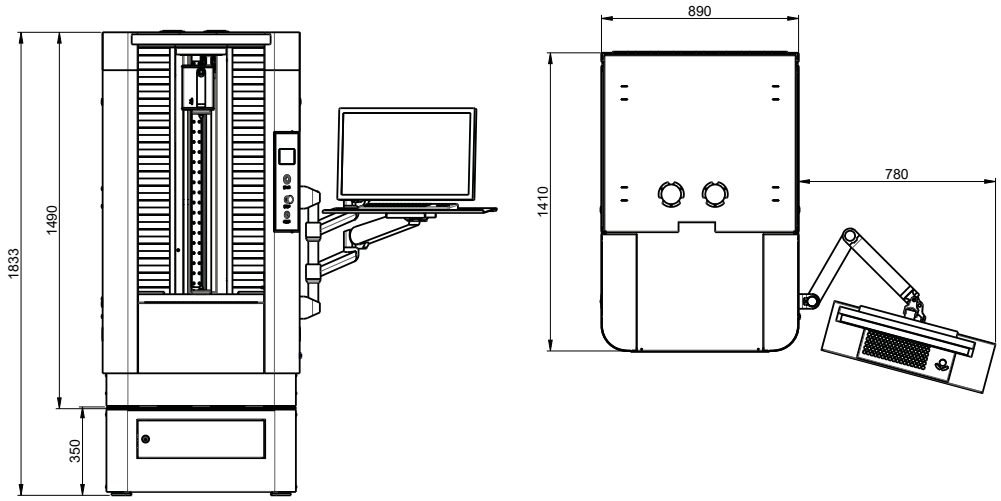
J

Optical measurement

SYLVAC-SCAN

DIMENSIONAL DRAWINGS

S185L



TECHNICAL SPECIFICATIONS

		902-4150*	
		Sylvac SCAN S185L	
		Diameter	Length
Measuring range	mm	185	1280
Resolution up to	mm	0.0001	0.0001
Max. error	µm	1.5 + (D[mm]/100) µm [1]	4 + (L[mm]/200) µm [1]
Repeatability 2δ	µm	0.5	1.0
Holding capacity	mm	254	1280
Axial positioning speed	mm/s	Up to 160	
Headstock		Rotary headstock for static and dynamic measurements	
Max. weigth of part	kg	100	
Machine's weight	kg	TBD	

[1] 20° C ± 1° C

*Preliminary specifications; machine available in Q1 2027

STANDARD DELIVERY

- Instrument according to technical specifications
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Manual

J

Optical measurement

SYLVAC-SCAN

TECHNICAL SPECIFICATIONS

SOFTWARES

	FUNCTIONS		
	SYLVAC REFLEX SCAN+	**SYLVAC REFLEX SCAN+ PRO**	**SYLVAC REFLEX SCAN+ Expert**
Automatic measurement of the main features (diameters, lenghts, angles, radius)	●	●	●
Automatic parts / program recognition	●	●	●
Reports editor	●	●	●
Data export	●	●	●
SPC basic calculation	●	●	●
Access management - security level	Multiple	Multiple	Multiple
Off-line programming	Optional	Optional	Optional
Advanced dust filtering	●	●	●
Statistic view	●	●	●
CAD Import / Export / Compare		●	●
Script function		●	●
Monitoring SPC module		●	●
Thread wizard for custom threads		●	●
Parametric programs			●
Machine Tool Corrector (MTC)			●

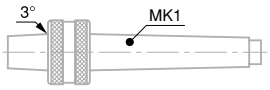
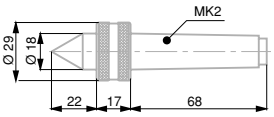
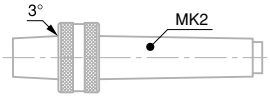
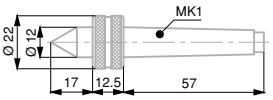
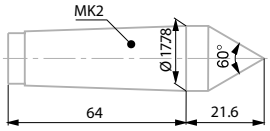
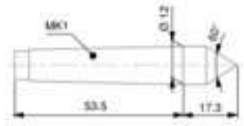
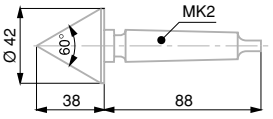
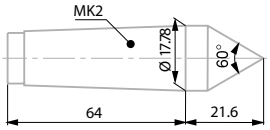
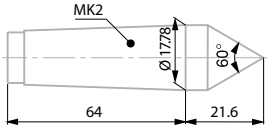
	GEOMETRICAL TOLERANCING - FEATURES SUMMARY		
	SYLVAC REFLEX SCAN+	**SYLVAC REFLEX SCAN+ PRO**	**SYLVAC REFLEX SCAN+ Expert**
Diameters	●	●	●
Lenghts, heights, distances	●	●	●
Angles, chamfers	●	●	●
Radii	●	●	●
Roundness	●	●	●
Cylindricity	●	●	●
Across flats	●	●	●
Rotational diameters	●	●	●
Run out	●	●	●
Concentricity	●	●	●
Threads (parallel)	●	●	●
Threads taper	●	●	●
Advanced threads (root detail, taper, multistarts, worm screws,...)	● Tilt machines only	● Tilt machines only	● Tilt machines only
Custom threads (bone-screws, dental implants, etc.)		●	●
Perpendicularity	●	●	●
Form deviation	●	●	●
Straightness	●	●	●
Interrupted parts (splines, turbines)	●	●	●

Optical measurement

SYLVAC-SCAN

ACCESSORIES

CENTRES AND DRIVE CENTRES

			SCAN S25/S65 ISO30	Morse 2 SCAN F60	SCAN S145 ISO40
	902-6000	Male centre 10 mm MK1	• Requires 902-6360	• Requires 902-6360	• Requires 902-6360
	**902-6160**	Rotation centre with a B12 male taper plus a Morse 1 taper shank	• Requires 902-6360	• Requires 902-6360	• Requires 902-6360
	**902-6161**	Rotation centre, Morse 2	•	•	•
	**902-6162**	Rotation centre with a B18 male taper plus a Morse 2 taper shank	•	•	•
	**902-6163**	Rotation centre, Morse 1	• Requires 902-6360	• Requires 902-6360	• Requires 902-6360
	**902-6202**	Male centre 17.78 mm, extra (Standard delivery with Sylvac-SCAN S25, F60 and S145)	•	•	•
	**902-6203**	Drive centre (Diamond coated 10mm)	• Requires 902-6360	• Requires 902-6360	• Requires 902-6360
	**902-6210**	Drive centre, Ø 42 mm plus a Morse 2 taper shank Diamond coated	•	•	•
	**902-6211**	Non diamond coated Drive centre Ø 42mm	•	•	•
	**902-6212**	Centre MK2 diamond coated, Ø 17mm	•	•	•

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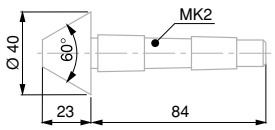
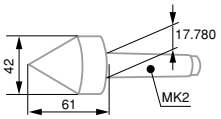
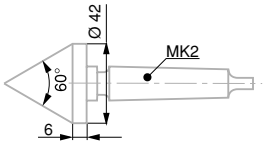
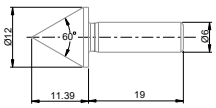
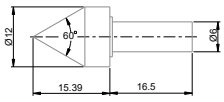
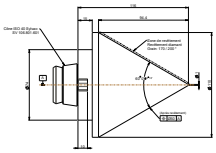
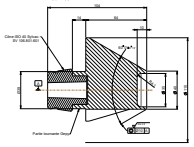
Optical measurement

SYLVAC-SCAN

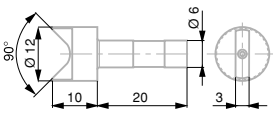
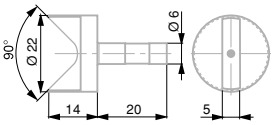
ACCESSORIES

CENTRES AND DRIVE CENTRES

			SCAN S25/ S65	SCAN F60	SCAN S145
	**902-6341**	Male centre, Ø 15÷40 mm, plus a Morse 2 taper shank	•	•	•
	**902-6380**	Rotation centre Ø 42mm MK2	•	•	•
	**902-6410**	Drive centre - diamond coated, with reference diameter. Ø 42 mm max.	•	•	•
	**902-6420**	Small male centre	• Requires 902-6251		
	**902-6421**	Small male rotating centre	• Requires 902-6251		
	**902-6430**	Fixed center Ø110 with diamond coating			•
	**902-6431**	Rotating center Ø110			•

ACCESSORIES

INVERTED V-CENTRES

	**902-6204**	Female centre Ø10mm Capacity Ø3 - 10mm	• Requires 902-6251	• Requires 902-6251	• Requires 902-6251
	**902-6205**	Female centre Ø20mm Capacity Ø5 - 20mm	• Requires 902-6251	• Requires 902-6251	• Requires 902-6251

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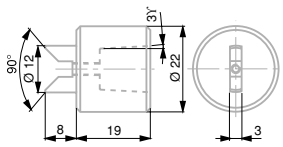
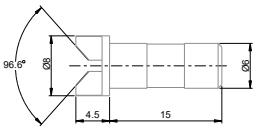
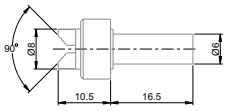
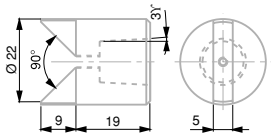
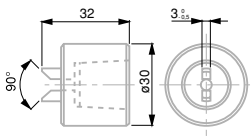
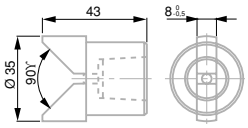
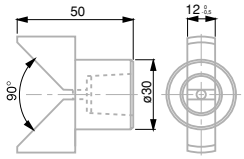
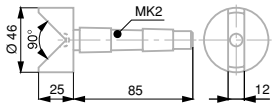
Optical measurement

SYLVAC-SCAN

ACCESSORIES

INVERTED V-CENTRES

			SCAN S25/ S65	SCAN F60	SCAN S145
	**902-6206**	Female centre Ø10mm Capacity Ø4 – 10mm B12 cone	• Requires 902-6360 902-6160	• Requires 902-6360 902-6160	• Requires 902-6360 902-6160
	**902-6214**	Small Female centre 5mm	• Requires 902-6251	• Requires 902-6251	• Requires 902-6251
	**902-6215**	Small Rotating female centre 5mm	• Requires 902-6251	• Requires 902-6251	• Requires 902-6251
	**902-6207**	Rotating female centre Ø20mm Capacity Ø5 - 20mm	• Requires 902-6360 902-6160	• Requires 902-6360 902-6160	• Requires 902-6360 902-6160
	**902-6310**	Female centre Ø10mm Capacity Ø4 – 10mm B18 cone	• Requires 902-6162	• Requires 902-6162	• Requires 902-6162
	**902-6311**	Female centre Ø30mm Capacity Ø5 – 30mm B18 cone	• Requires 902-6162	• Requires 902-6162	• Requires 902-6162
	**902-6312**	Female centre Ø45mm	• Requires 902-6162	• Requires 902-6162	• Requires 902-6162
	**902-6340**	Female centre Ø40mm MK2 Capacité Ø5 - 40mm	•	•	•

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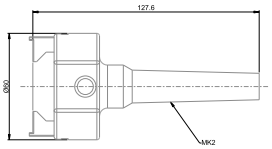
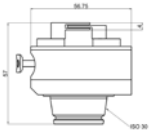
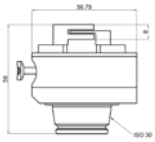
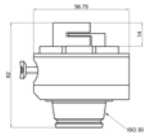
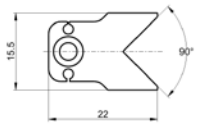
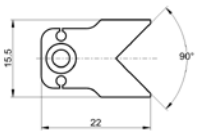
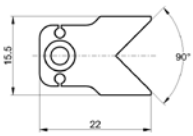
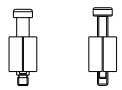
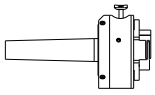
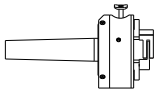
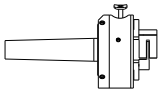
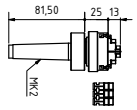
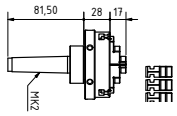
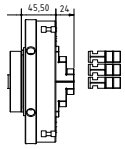
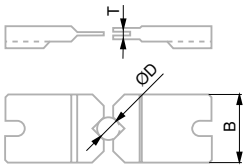
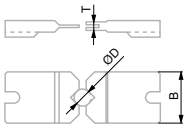
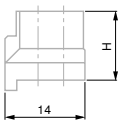
			SCAN S25/ S65	SCAN F60	SCAN S145
	**902-6222**	Two-jaw gripper External clamping for manual use		●	● Requires 902-6260
	**902-6270**	Two-jaw pliers Ø 0-20mm with H=4mm jaws (only the left jaw is exchangeable)	●		
	**902-6271**	Two-jaw pliers Ø 0-20mm with H=8mm jaws (only the left jaw is exchangeable)	●		
	**902-6272**	Two-jaw pliers Ø 0-20mm with jaws H=14mm (only the left jaw is exchangeable)	●		
	**902-6273**	Left external jaws Ø 0-20mm H=4mm	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272
	**902-6274**	Left external jaws Ø 0-20mm H=8mm	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272
	**902-6275**	Left external jaws Ø 0-20mm H=14mm	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272
	**902-6276**	Jaw raiser, H=10mm Stackable, maximum 2x10mm	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272
	902-6278	Two-jaw pliers Ø 0-7mm with H=1.5mm jaws	●		
	**902-6267**	Two-jaw pliers Ø 0-20mm MK2 with H=4mm jaws (only the left jaw is exchangeable, delivered in pairs)		●	● Requires 902-6260
	**902-6268**	Two-jaw pliers Ø 0-20mm MK2 with H=8mm jaws (only the left jaw is exchangeable)		●	● Requires 902-6260
	**902-6269**	Two-jaw pliers Ø 0-20mm MK2 with jaws H=14mm (only the left jaw is exchangeable)		●	● Requires 902-6260

*Availability Q1 2024 / Production on request

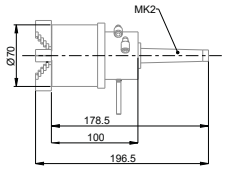
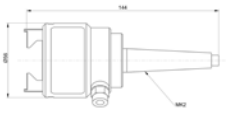
			SCAN S25/ S65	SCAN F60	SCAN S145
	**902-6306**	3-jaw chuck MK2 External clamping Ø 0.5mm - 41mm Internal clamping Ø 12mm - 36mm Step Height : 5mm	•	•	• Requires 902-6260
	**902-6307**	3-jaw chuck MK2 External clamping Ø 1mm - 71mm Internal clamping Ø 18mm - 66mm Step Height : 10mm		•	• Requires 902-6260
	**902-6308**	3-jaw chuck ISO40 External clamping Ø 1mm - 150mm Internal clamping Ø 34mm - 174mm Step Height : 10mm			•
	902-6288	Jaw raiser, H=50mm (for gripper 902-6270, 902-6271, 902-6272)	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272	For 902-6267, 902-6268, 902-6269 902-6270, 902-6271 and 902-6272
	**902-6140** 6÷12mm/T=15mm **902-6141** 0÷6mm/T=1.5mm **902-6142** 0÷6mm/T=3mm **902-6143** 6÷12mm/T=3mm **902-6144** 12÷18mm/T=6mm **902-6145** 18÷24mm/T=9mm **902-6152** 0÷6mm/T=6mm **902-6153** 0÷6mm/T=15mm	External jaws, in pairs	For 902-6220, 902-6221, 902-6222, 902-6223	For 902-6220, 902-6221, 902-6222, 902-6223	For 902-6220, 902-6221, 902-6222, 902-6223
	Set with 5 articles **902-6154** H=22	External jaws, in pairs 902-6141 : Jaws dia 0-6mm, T1=1.5mm, B=18mm 902-6142 : Jaws dia 0-6mm, T1=1.3mm, B=18mm 902-6143 : Jaws dia 6-12mm, T1=3mm, B=18mm 902-6144 : Jaws dia 12-18mm, T1=6mm, B=20mm 902-6145 : Jaws dia 18-24mm, T1=9mm, B=25mm	Requires 902-6220, 902-6221, 902-6222, 902-6223	Requires 902-6220, 902-6221, 902-6222, 902-6223	Requires 902-6220, 902-6221, 902-6222, 902-6223
	**902-6231**	Raising blocks for external jaws, in pairs	Requires 902-6220, 902-6221, 902-6222, 902-6223	Requires 902-6220, 902-6221, 902-6222, 902-6223	Requires 902-6220, 902-6221, 902-6222, 902-6223

Optical measurement

SYLVAC-SCAN

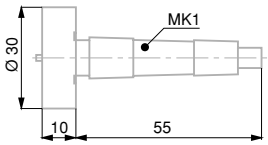
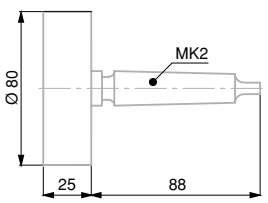
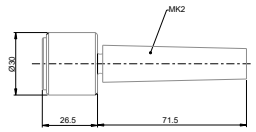
ACCESSORIES

AUTOMATIC CHUCKS

			SCAN S25/ S65	SCAN F60	SCAN S145
	**902-6309**	3-jaw pneumatic chuck MK2 1mm - 60mm		•	
	**902-6223**	2-jaw pneumatic chuck MK2	•	•	
	902-6290	Automatic version of 2-jaw gripper (902-6270)	• S25 serie only		

ACCESSORIES

PLATES

	**902-6208**	Plate, Ø 30 mm MK1	• Requires 902-6360	• Requires 902-6360	• Requires 902-6360
	**902-6209**	Plate, Ø 80 mm MK2	•	•	•
	**902-6228**	Magnetic clamping plate Ø0-24 mm MK2	•	•	•

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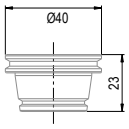
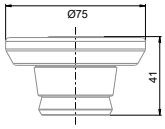
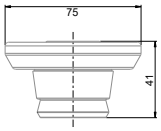
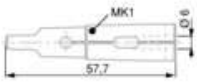
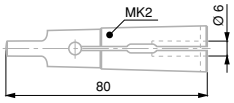
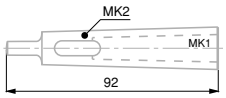
Optical measurement

SYLVAC-SCAN

ACCESSORIES

ADAPTERS

			SCAN S25/ S65	SCAN F60	SCAN S145
	**902-6258**	Adapter MK1 for SCAN S25	●		
	902-6259	Adapter MK2 for SCAN S25	●		
	**902-6260**	Adapter MK2 for SCAN S145			●
	**902-6263**	Adapter MK3 for SCAN S145			●
	**902-6250**	Adapter with bore Ø 6 mm MK1	● Requires 902-6360	● Requires 902-6360	● Requires 902-6360
	**902-6251**	Adapter with bore Ø 6 mm MK2	●	●	●
	**902-6360**	Reduction sleeve DIN 2185 MK A/I 2:1	●	●	●

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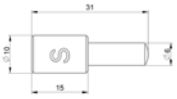
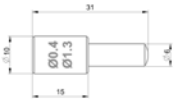
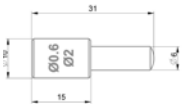
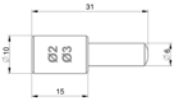
Optical measurement

SYLVAC-SCAN

ACCESSORIES

PLATES

			SCAN S25/ S65	SCAN F60	SCAN S145
	**902-6330**	Centered magnetic plate, magnetized - SUD for the headstock	● Requires 902-6251		
	**902-6335**	Magnetic gripper with V for parts with Ø0.4mm - 1.3mm tip, magnetized - NORD	● Requires 902-6251		
	**902-6336**	Magnetic gripper with V for parts with Ø0.6mm - 2.0mm tip, magnetized - NORD	● Requires 902-6251		
	**902-6337**	Magnetic gripper with V for parts with Ø2.0mm - 3.0mm tip, magnetized - NORD	● Requires 902-6251		
	902-6339	Set of 3 NORTH magnetic plates (902-6335, 902-6336, 902-6337) and 1 SOUTH magnet (602-6330)	● Requires 902-6251		
	902-6242	Modular fixture for micro parts 0 - 25mm, Ø0.15 - 20mm Delivered without tip	● S25/T only		

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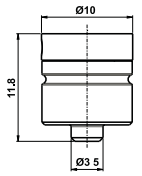
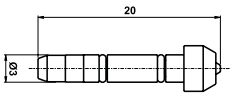
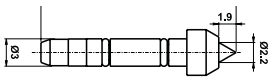
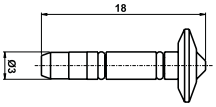
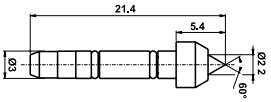
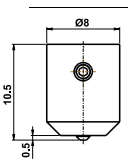
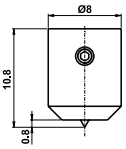
Optical measurement

SYLVAC-SCAN

ACCESSORIES

PLATES

			SCAN S25/ S65	SCAN F60	SCAN S145
	**902-6243**	Upper magnetic plate SOUTH	• Requires 902-6242		
	**902-6244**	Bottom female Magnetic Center	• Requires 902-6242		
	**902-6245**	Bottom male Magnetic Tip	• Requires 902-6242		
	**902-6246**	Bottom Non-Magnetic female Center	• Requires 902-6242		
	**902-6247**	Bottom Non-Magnetic Tip	• Requires 902-6242		
	**902-6248**	Female rotating upper center	• Requires 902-6242		
	**902-6249**	Male rotating upper tip	• Requires 902-6242		

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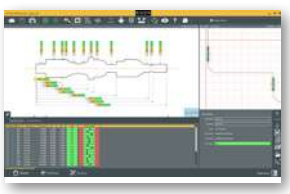
ACCESSORIES



		SCAN S25/ S65	SCAN F60	SCAN S145
***	Reflex SCAN+ Standard (delivered with 902-4060, 902-4062, 902-4065, 902-4067, 902-4020 & 902-4025)	•	•	•
902-7015	Reflex SCAN+ Offline Software	•	•	•
902-7017	Reflex-SCAN+ Automation software module (Option, require Reflex SCAN+, standard delivery with S145 and S25)	•	•	•
902-7021	Reflex-Scan+ «PRO» including, advanced thread wizard, CAD compare, Monitoring SPC, scripting	•	•	•
902-7022	Reflex-SCAN+ PRO Offline	•	•	•
902-7023	Reflex-SCAN+ Expert	•	•	•
902-7024	Reflex-SCAN+ Expert offline	•	•	•
902-7025	Reflex-SCAN+ Expert upgrade from Pro	•	•	•

ACCESSORIES

			SCAN S25/ S65	SCAN F60	SCAN S145
	902-6012	Gold demo part	●	●	●
	902-6013	Gold demo part for threads	●	●	●
	902-6014	Gold demo part XL			●
	902-6601	Furniture for Sylvac SCAN F60 storage for PC, drawer with lock and arm for keyboard and screen		●	
	902-6602	Table S25T (75x75mm), selectable height 75cm or 105cm	● S25(T) series only		
	902-6605	Height-adjustable table (71-1140mm) for keyboard, screen and mouse (80x60mm)	●	●	
	902-6607	Accessories tidy insert for drawer (included with 902-6601)		●	
	928-6006	Plastiform case for SCAN and VISIO	●	●	●
	902-6609	Rack	●	●	●
	902-6611	Option table 700mm (replaces the standard 350mm table)			●
	902-6613	Scan-S65(T)/S76(T) machine stand H=600mm	● S65(T)/S76(T) series only		
	902-6614	Scan-S65L(T)/S76L(T) machine stand H=350mm	● S65L(T)/S76(T) series only		
	602-104-01	Protective cover	●		

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Optical measurement

SYLVAC-VISIO

DESCRIPTION

200 & 300 V3

- High quality ergonomic 2.5D optical (video) measuring system
- Extremely robust and durable construction with granite base and gooseneck
- Full HD camera with wide field of view for increased accuracy
- Manual X-Y table with quick-release and high-precision guidance
- Manual or motorised zoom depending on the version
- Lighting with ring light adjustable in segments, coaxial light and diascopic light
- Delivered complete with a computer with touch screen and the very easy to use Reflex-Vista software offering a wide range of functionalities: Semi-automatic intuitive measurement, automatic edge detection, comparison with imported DXF contour
- Available in 3 versions :
  - 902-2210: VISIO 200, manual zoom, measuring range 200 x 100 x 150 mm
  - 902-2211: VISIO 200, motorised zoom, measuring range 200 x 100 x 150 mm
  - 902-2212: VISIO 300, motorised zoom, measuring range 300 x 200 x 150 mm
- Numerous accessories available

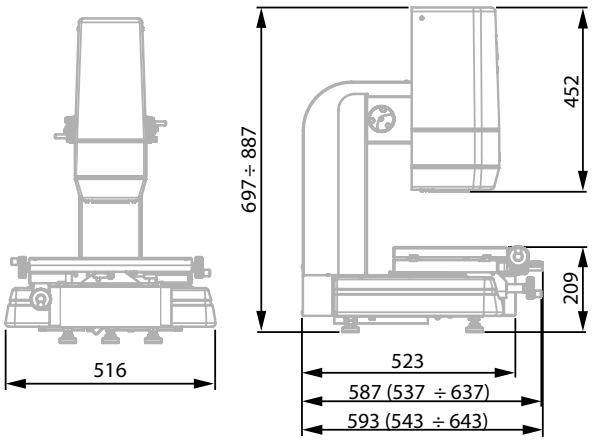
SWISS MADE

Optical measurement

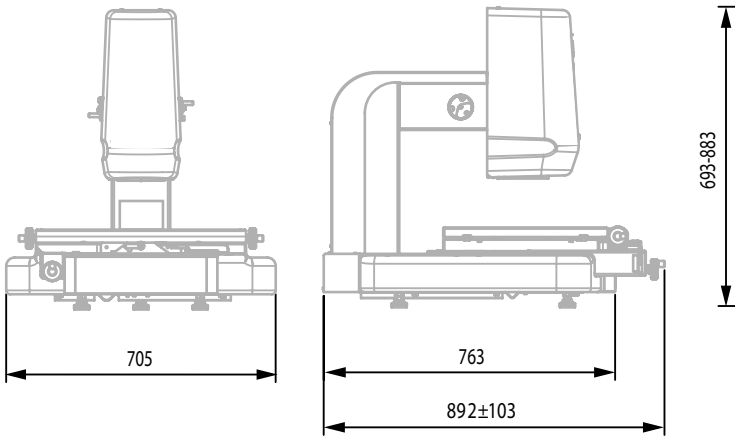
SYLVAC-VISIO

DIMENSIONAL DRAWINGS

200 & 300 V3



Sylvac VISIO 200 V3



Sylvac VISIO 300 V3

TECHNICAL SPECIFICATIONS

		902-2210	902-2211	902-2310
Model		Sylvac Visio 200		Sylvac Visio 300
Measuring volume	mm	200x100x150		300x200x150
X, Y Accuracy (E_1, X, Y)	µm	1.9 + 10L/1000 (L = mm) [1]/ [3]		1.9 + 4L/1000 (L = mm) [1]/ [3]
XY Accuracy (E_2, XY)	µm	2.4 + 10L/1000 (L = mm) [1]/ [3]		2.4 + 4L/1000 (L = mm) [1]/ [3]
Z Accuracy (E_1, Z) [2]	µm	2.9 + 10L/1000 (L = mm)		2.9 + 10L/1000 (L = mm)
Resolution	mm	0.001		0.001
Max. load capacity	kg	10		20
Magnification (screen 23.8")		24x - 144x (12x - 288x with additional lenses)		
Zoom		Manuel 4x	Motorised 6x	Motorised 6x
Weight		98		170
International standards		EN61000-6-2, EN61000-6-4, EN61326-1, EN12100-1, EN12100-2		

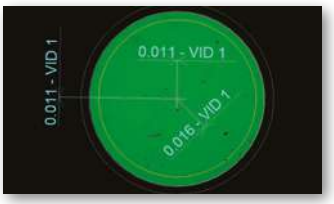
[1] m ≤ 5 kg [2] mechanical accuracy [3] at glass plate level

STANDARD DELIVERY

- Instrument according to technical specifications
- Software Sylvac-REFLEX Vista multilingual
- Computer with touchscreen 23.8", keyboard and mouse
- CAD compare software
- Windows 10 multilingual operating system
- Manual
- Calibration certificate

Optical measurement

ACCESSORIES

			VISIO 200	VISIO 300
	902-6020	Visio demo part	•	•
	902-7100	Additional lens, 0,5x for zoom 6,5x	•	•
	902-7101	Additional lens, 0,75x for zoom 6,5x	•	•
	902-7102	Additional lens, 1.5x for zoom 6,5x	•	•
	902-7103	Additional lens, 2x for zoom 6,5x	•	•
	902-7380	Foot switch for value capture	•	•
	**902-7390**	Sylvac - Reflex Vista COMPARE	Standard delivery	Standard delivery
	928-6006	Plastiform case for SCAN and VISIO	•	•

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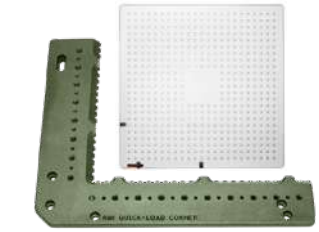
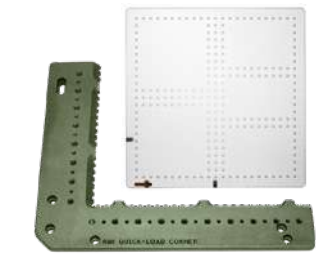
ACCESSORIES

			VISIO 200	VISIO 300
	**902-7300**	Basic fixtures Kit : • 1x Quick-Load Corner Fixture (QLC) • 1x 13mm x 150mm x 150mm R&R Acrylic Multi-Hole Fixture Plate • 1x (3) Dowel Pins • 3x 6mm Dia. x 10 and x 25mm Standoff • 3x 9mm Dia. x 5, x 10, x 20 and x 25mm Standoff • 3x 12mm Dia. x 10 and x 25mm Standoff • 2x 6mm Dia. x 10mm Pin Standoff • 2x 9mm Dia. x 10mm Pin Standoff • 2x 40mm Tension Clamp with Rubber Coated Tip • 2x 25mm Wire Clamp with Rubber Coated Tip • 2x 50mm Wire Clamp with Rubber Coated Tip • 4x Aluminium Resting Pin with M4 Thread • 1x 50mm x 50mm Corner Viewer for M4 • 1x 9mm Dia. Adjustable Jackstand with M4 Thread • 1x M4 Pusher Clamp • 1x 30mm and 1x 45mm Long Adjustable Slide with M4 Thread • 1x M4 Tower Block • 1x Micro-Clamp Vise with Base for M4 Components • 1x 12mm Dia. x10mm Spring Pusher Standoff Clamp • 1x 300mm x 190mm x 25mm Component Tray to Hold M4 Components	•	•
	**902-7301**	Advanced fixtures Kit : All Basic fixtures (acrylic plate 13x200x200mm) kit added with : • 3x 6mm Dia. x 5, x 10 and x 25mm Standoff • 3x 9mm Dia. x 10, x 20, x 25mm Standoff • 3x 12mm Dia. x 10, x25mm Standoff • 2x 6mm Dia. x 10mm Pin Standoff • 2x 9mm Dia. x 10mm Pin Standoff • 4x 12mm Dia. x 10mm Pin Standoff • 2x 40mm Tension Clamp with Rubber Coated Tip • 2x 25mm Wire Clamp with Rubber Coated Tip • 2x 50mm Wire Clamp with Rubber Coated Tip with 50mm Post • 1x 9mm Dia. Adjustable Jackstand with M4 Thread • 1x 30mm and 1x 45mm Long Adjustable Slide with M4 Thread • 1x Base 16mm Sq x 19mm (for M4 Tower Block)	•	•
	902-7104	Fresnel kit 0.5x / Fresnel lens + lens 0.5x + fixation screws (for Ringlight)	•	
	902-7105	Fresnel kit 0.75x / Fresnel lens + lens 0.75x + fixation screws (for Ringlight)	•	
	902-7106	Fresnel kit 1.5x / Fresnel lens + lens 1.5x + fixation screws (for Ringlight)	•	
	902-7108	Fresnel kit 0.5x / Fresnel lens + lens 0.5x + fixation screws (for Ringlight)		•

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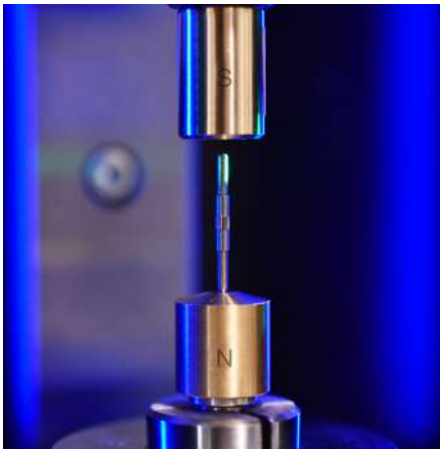
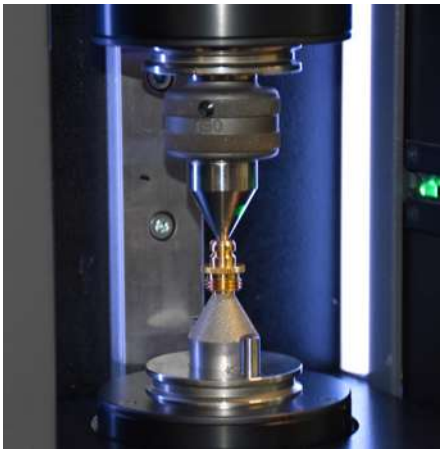
Optical measurement

APPLICATIONS



Measurement of small parts by magnetic levitation on SCAN S25T



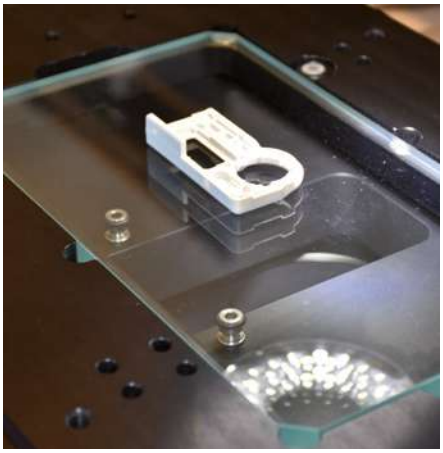
Part measurement with SCAN S25T

Thread measurement with SCAN F60T

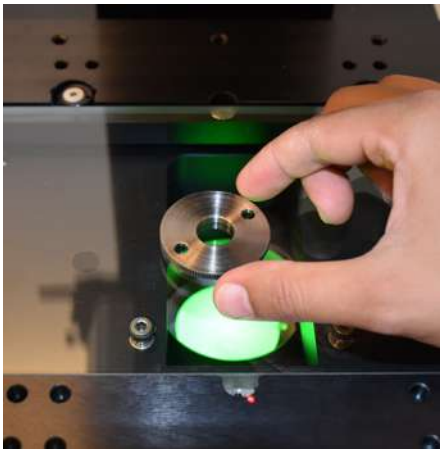
Part measurement with SCAN F60

Part measurement with SCAN F60L

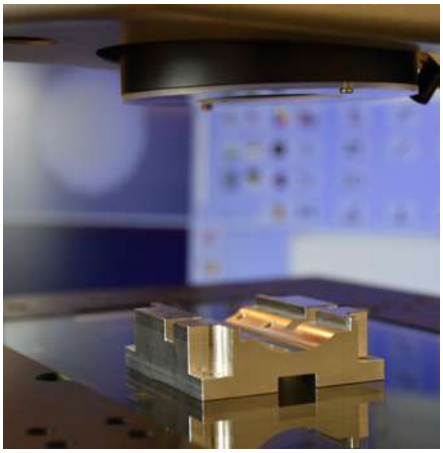
Universal robot and SCAN S25T



Part lighted by ring light on VISIO



Part lighted by diascopic light on VISIO



Part lighted by coaxial light on VISIO

PLASTIFORM®

As an excellent complement to our Sylvac measuring instruments and optical machines, Plastiform's bi-component products allow us to obtain in a few minutes very precise impressions (replicas) of all the details of the surface to which they have been applied. Depending on the type of Plastiform product used, a complete or partial impression will be obtained with a soft, semi-flexible, rigid or semi-rigid consistency that can be measured optically. These products make it possible to avoid having to cut and therefore destroy sometimes expensive parts in order to be able to control them, or having to dismantle and move more important elements.

Plastiform®

SRL

DESCRIPTION

LIQUID PRODUCTS

- Products with an initial liquid consistency to produce high precision, optically measurable, flexible to semi-rigid full impressions.
- Easy to use products, thanks to their fluidity, they can be set up by themselves.
- Specially designed for complex internal shapes, such as threads and grooves that require flexibility so that the impression can be removed from the workpiece without breaking it.
- Semi-rigid impressions can be cut with a double-blade cutter to measure the cross-section optically.

Cartridges 50ml and 400ml

Cans 1.7l

Cans 10.2l

Internal impression

Non-destructive control

Plastiform®

SRL

TECHNICAL SPECIFICATIONS

LIQUID PRODUCTS

Cartridges 50ml	928-2001	928-2005	928-2101	928-2105	928-2002	928-2006	928-2102	928-2106
Type	SRL2	SRL3V	SRL5	SRL8	SRL2	SRL3V	SRL5	SRL8
Description	2 Cartridges 50ml + 12 Standard Nozzles + 3 Tips				8 Cartridges 50ml + 48 Standard Nozzles + 6 Tips			
Color								
Final consistency	Flexible	Flexible	Semi-Flexible	Rigid	Flexible	Semi-Flexible	Semi-Flexible	Rigid
Cut with cutter ?	✕	✕	✔	✕	✕	✕	✔	✕
Removal constraint	30%	20%	10%	0%	30%	20%	10%	0%

Cartridges 400ml	928-3001	928-3003	928-3005
Type	SRL2 L	SRL5 L	SRL8 L
Description	1 Cartridge 400ml + 10 Quadro Nozzles		
Color			
Final consistency	Flexible	Semi-Flexible	Semi-Rigid
Cut with cutter ?	✕	✕	✕
Removal constraint	20%	5%	0%

Cans 1.7l	928-8001	928-8005	928-8009
Type	SRL2 XL	SRL5 XL	SRL8 XL
Description	1 Can 1.7l (2x 850ml)		
Color			
Final consistency	Flexible	Semi-Flexible	Semi-Rigid
Cut with cutter ?	✕	✕	✕
Removal constraint	20%	5%	0%

Cans 10.2l	928-8002	928-8006	928-8010
Type	SRL2 XXL	SRL5 XXL	SRL8 XXL
Description	1 Can 10.2l (2x 5.1l)		
Color			
Final consistency	Flexible	Semi-Flexible	Semi-Rigid
Cut with cutter ?	✕	✕	✕
Removal constraint	20%	5%	0%

Plastiform®

SRC, SRD, SRF

DESCRIPTION

CEMENT, DOUGH & RE-FORM PRODUCTS

- Cement (SRC), Dough (SRD) and Re-form (SRF) initial consistency products for checking partial internal and external shapes that can be measured optically or, for some products, to size.
- Impressions can be cut with a double-blade cutter to measure the cross-section optically.
- The SRC8 Ra product enables the production of indentations on which the roughness Ra can be measured with high precision.

Cartridges 50ml

Boxes 900ml

External impression (SRD)

Control of roughness Ra (SRC)

Protection (SRF)

Re-form

Plastiform®

SRC, SRD, SRF

TECHNICAL SPECIFICATIONS

CEMENT, DOUGH & RE-FORM PRODUCTS

Cartridges 50ml	**928-2109**	**928-2113**	**928-2111**	**928-2110**	**928-2114**	**928-2112**
Type	SRC3	SRC8 Ra	SRC10	SRC3	SRC8 Ra	SRC10
Description	2 Cartridges 50ml + 12 Standard Nozzles + 3 Tips			8 Cartridges 50ml + 48 Standard Nozzles + 6 Tips		
Color						
Final consistency	Flexible	Semi-Rigid	Rigid	Rigid	Semi-Rigid	Rigid
Cut with cutter ?	✔	✕	✕	✔	✕	✕
Removal constraint	20%	0%	0%	20%	0%	0%

Boxes 90ml	**928-7004**	**928-7006**	**928-7008**
Type	SRD6	SRD7	SRD9
Description	Small boxes 90ml (2x45ml)		
Color			
Final consistency	Semi-Flexible	Semi-Flexible	Rigid
Cut with cutter ?	✔	✔	✕
Removal constraint	5%	5%	0%

Boxes 900ml	**928-7003**	**928-7005**	**928-7007**
Type	SRD6	SRD7	SRD9
Description	Pack of boxes 900ml (2x450ml)		
Color			
Final consistency	Semi-Flexible	Semi-Flexible	Rigid
Cut with cutter ?	✔	✔	✕
Removal constraint	5%	5%	0%

Bags	**928-4001**
Type	SRF
Description	Bag of 500g
Color	
Final consistency	Rigid
Cut with cutter ?	✕
Removal constraint	-

Plastiform®

KITS

DESCRIPTION

KITS & ACCESSORIES

- Complete kit with cartridges and accessories
- Large volumes kits
- Accessories

928-1207

928-1305

928-1201

*

928-1205

Example of content of a large volume kit (928-5001)

Twin blade cutter

928-1011

928-1003

928-1301

928-1008

928-1202

928-1212

Special kit SCAN & VISIO

928-6006

Kit complet	**928-6006**
Typ	Special kit SCAN & VISIO
Content	1 manual dispensing gun (928-1001), 1 twin blade cutter 60mmx1mm (928-1009), 1 cutting guide for cutter (928-1010), 50 standard mixer injectors, 10 standard white nozzle tips, 21 rings for mold removal (928-1008), 1 plastin 250g (928-1201), 1 degreaser DN1 400ml (928-1205), 1 Re-form bag (SRF) 50g (928-4001), 2 cartridges SRL2 (928-2001), 2 cartridges SRL5 (928-2101), 2 cartridges SRC3 (928-210), 1 cartridge SRL8 (928-2105), 1 tube SRD7 2x45ml (928-7006)

* Not included or delivered if shipped by air

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Plastiform®

KITS

TECHNICAL SPECIFICATIONS

KITS & ACCESSORIES

Large volume kits	928-5001	928-5002	928-5004
Type	Kit SRL2 KXL	Kit SRL5 KXL	Kit SRL8 KXL
Description	Kit with 4 cartridges 400ml and accessories		
Color			
Final consistency	Flexible	Semi-Flexible	Semi-Rigid
Cut with cutter ?	×	×	×
Removal constraint	20%	5%	0%

Guns	928-1001	928-1002	928-1207	928-1208	928-1209
Description	Manual Dispensing Gun DS53 (for 50 ml cartridges)	Pneumatic Dispensing Gun DP50 (for 50 ml cartridges)	Manual Dispensing Gun DS 400 (for 400 ml cartridges)	Battery Dispensing Gun DB 400 (for 400ml cartridges)	Pneumatic Dispensing Gun DS 400 (for 400 ml cartridges)

Nozzles, tips and rings	928-1003	928-1004	928-1005	928-1301	928-1302
Description	Pack of 48 Standard Grey Mixer Injectors	Pack of 96 Standard Grey Mixer Injectors	Pack of 192 Standard Grey Mixer Injectors	Pack of 10 Needle Mixer Injectors	Pack of 50 Needle Mixer Injectors
Compatibility	Cartridges 50ml				

Nozzles, tips and rings	928-1303	928-1304	928-1305	928-1306	928-1210
Description	Pack of 100 Needle Mixer Injectors	Pack of 200 Needle Mixer Injectors	Pack of 50 Quadro Mixer Injectors	Pack of 100 Quadro Mixer Injectors	Pack of 10 Large Mixer Injectors
Compatibility	Cartridges 50ml		Cartridges 400ml		

Nozzles, tips and rings	928-1211	928-1212	928-1008	928-1202	928-1203	928-1201
Description	Pack of 50 Large Mixer Injectors	Box of 4 different Fill'in	Pack of 21 Rings for mould removal	Pack of 20 White Nozzles Tips	Pack of 50 White Nozzles Tips	Plastin
Compatibility	Cartridges 400ml	-	-	Standard grey Mixer injectors		-

Cutters & products	928-1011	928-1101	928-1102	928-1103	928-1104
Description	Standard Twin Blade Cutter + Support	Special Twin Blade Cutter 60mm + Support	Special Twin Blade Cutter 60mm + Support	Special Twin Blade Cutter 100mm + Support	Special Twin Blade Cutter 100mm + Support
Space between blades	1mm	0.5mm	2mm	0.5mm	1mm

Cutters & products	928-1105	928-1106	928-1107	928-1108	928-1205*	928-1206*
Description	Special Twin Blade Cutter 100mm + Support	Special Twin Blade Cutter 200mm + Support	Special Twin Blade Cutter 200mm + Support	Special Twin Blade Cutter 200mm + Support	Surface cleaner DN1 400ml	Surface cleaner DN1 1l
Space between blades	2mm	0.5mm	1mm	2mm	-	-

* Not included or delivered if shipped by air

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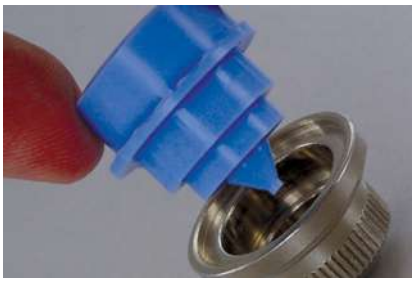
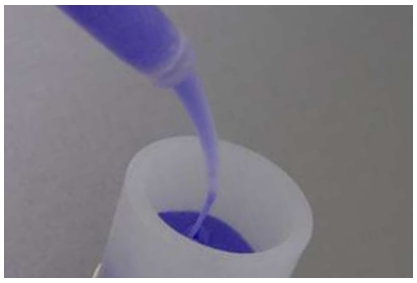
APPLICATIONS

Internal dimensional control



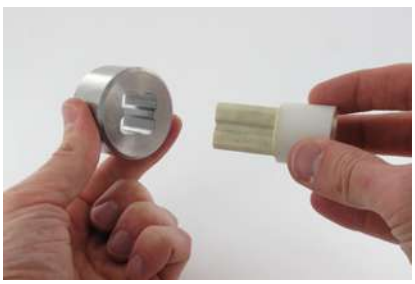
Internal dimensional control

External dimensional control



Non-destructive control

Custom protective cap



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APPLICATIONS

Profile cutting

Roughness control Ra

Visual finishing control

Protection, masking, seal

Fix, clamp, add strength to parts

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