




Developed in 

Manufactured in 

Assembled in 

Catalogue **Edition 11**

Catalogue **Edition 11**

Experts in connected metrology.



Precisely
50
years

 **sylvac**

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Introduction

SYLVAC CATALOGUE

Dear Customer, Dear Reader,

Welcome to the new edition of our Sylvac general catalogue. This new edition is considered necessary because of the many new items that have recently been added to our product range.

Discover without delay our new instruments for this new year, such as :

- Sylcom Pro software: new module offering amazing additional features
- The Sylvac SCAN S145, measurement up to 1'280mm
- Hi_Gage ONE Smart: first ever scribbling and measuring height gage including Bluetooth® technology
- Hi_Cal Smart V2: redesigned for better reliability, new display and built-in Bluetooth® technology
- S_Dial Mini Smart: when size matters, our small indicators are now available with Bluetooth® technology
- S_Dial WORK CBG Smart: exclusively designed for very simple use with Cylinder Bore Gages, including Bluetooth® technology
- Depth gauges EVO including Bluetooth® technology
- Plastiform: unique 3D high precision replicating material for the industry
- And many more surprises...

This catalogue showcases all of Sylvac's know-how, as illustrated by the incredible number of new innovative products which are a perfect illustration of Sylvac's dynamism. Other exciting projects are in the pipeline and will be presented to you in a future edition, highlighting our passion for innovation and our boundless imagination!

Discover other surprises that await you in our new catalogue now!

Why should you choose our products?

There are many sound arguments in our favour, particularly:

- More than 50 years expertise and experience in the area of dimensional measurement.
- 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 40 countries.
- Products that meet international standards (a number of them are instruments protected in accordance with IP67).

In order to meet an increasing demand for traceability of controls, our instruments are fitted with a data output for wired or wireless connection.

dial gauges with data transmission by Bluetooth® signal, developed by Sylvac mark the start of a new era in the area of quality control and confirm our position as leaders in this market.

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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Sylvac SA

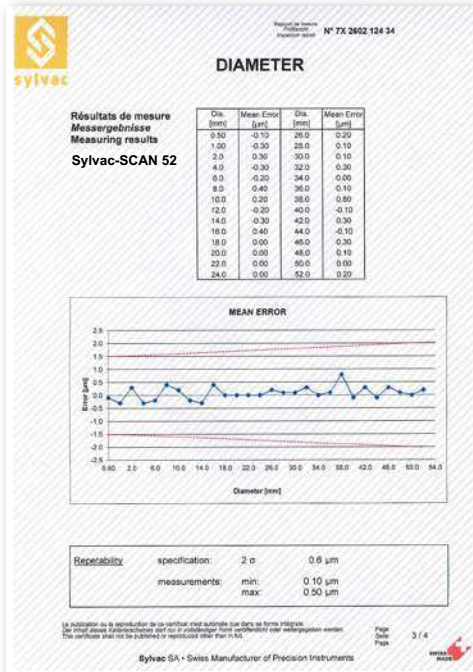
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Certificates

SYLVAC PRODUCTS



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)

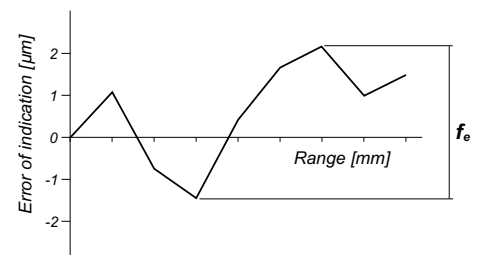
Error max :

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



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).



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.



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®

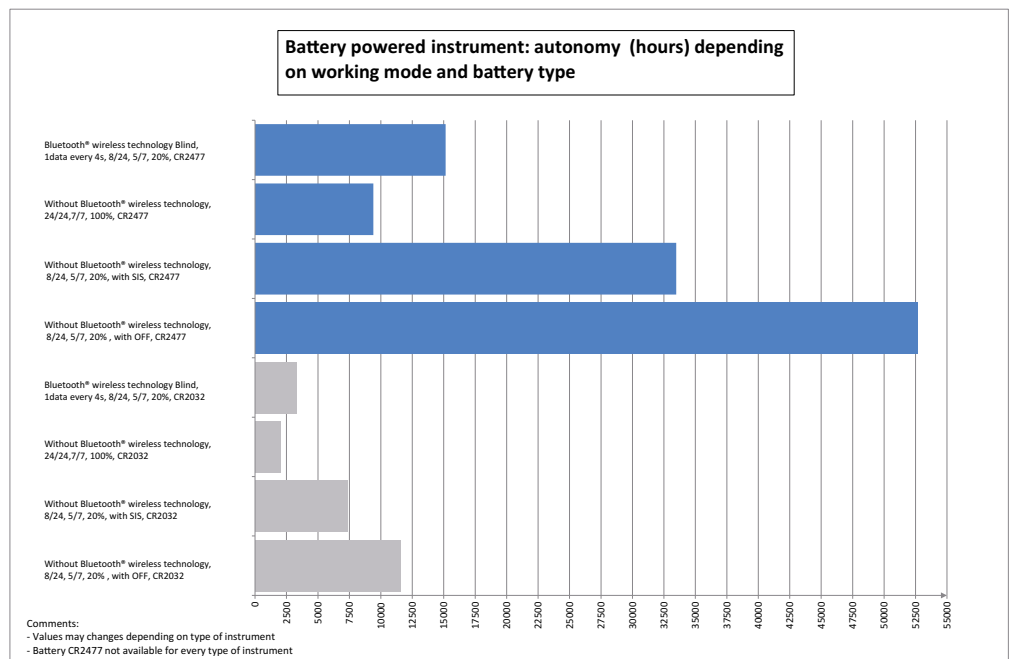
Our instruments with Bluetooth® wireless technology have a 15m scope. In terms of wave emissions, the Bluetooth® low energy has a transmission about 1mW, which corresponds of 1/100 of the Wifi and 1/40 of the GSM/3G transmission from the smartphones.

With a working distance of at least 20cm, the effect on the human body is a thousand times smaller than a mobile phone worn on the ear.

New IOT Ready functions :



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



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.

DATA TRANSMISSION & SOFTWARE

In recent years, manufacturing has been conceptualized as a system that goes beyond just produce and deliver goods.

Optimizing production and quality control require an optimal data collection and analysis.

In this chapter, you will find a large selection of connection cables, wireless transmission solutions and software, in order to meet the requirements of the Smart Manufacturing and Industry 4.0 concepts.

RS232, USB or Bluetooth® wireless technology data output



Data transmission and software

A CONNECTIONS

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 controlling components using specific instruments or positions. Here are some of the highlights:



- The solution is totally integrated into the instrument
The wireless Bluetooth® transmitter is fixed on the electronic chart 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.



- Transmission distance
The maximum distance between the instrument and the peripheral device receiving the values is generally between 5 and 15 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!

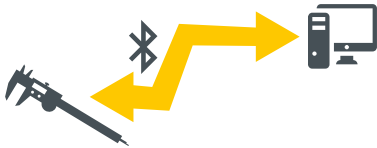


- Autonomy
Sylvac's technological achievement was to offer a solution with energy-efficient Bluetooth® Wireless technology so that our instruments powered by a standard lithium battery could remain connected and used for several weeks, even several months. This is achieved thanks to our patented measurement 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

A



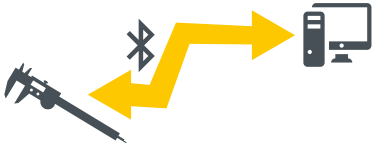
- Duplex Transmission
Sylvac instruments are currently the only instruments able to communicate bidirectionally by Bluetooth® Wireless technology with the peripheral to which they are connected. This means that they can both send values and information and receive and interpret them. The best example 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.



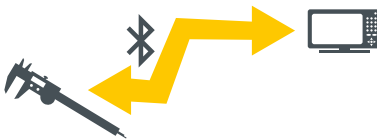
- Freedom of action at the price of a wired connection
One important factor to consider when selecting an instrument is of course its price! Our Sylvac instruments with Bluetooth® Wireless technology also offer, as well as the features listed above, the benefit of not costing more than a traditional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

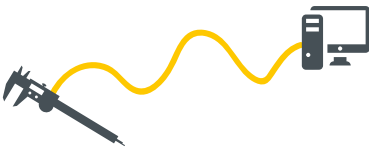
IOT Ready connection profiles

The second 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

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Connection Proximity



Connection RS-485



Connection M8



Bluetooth® Wireless technology with dongle



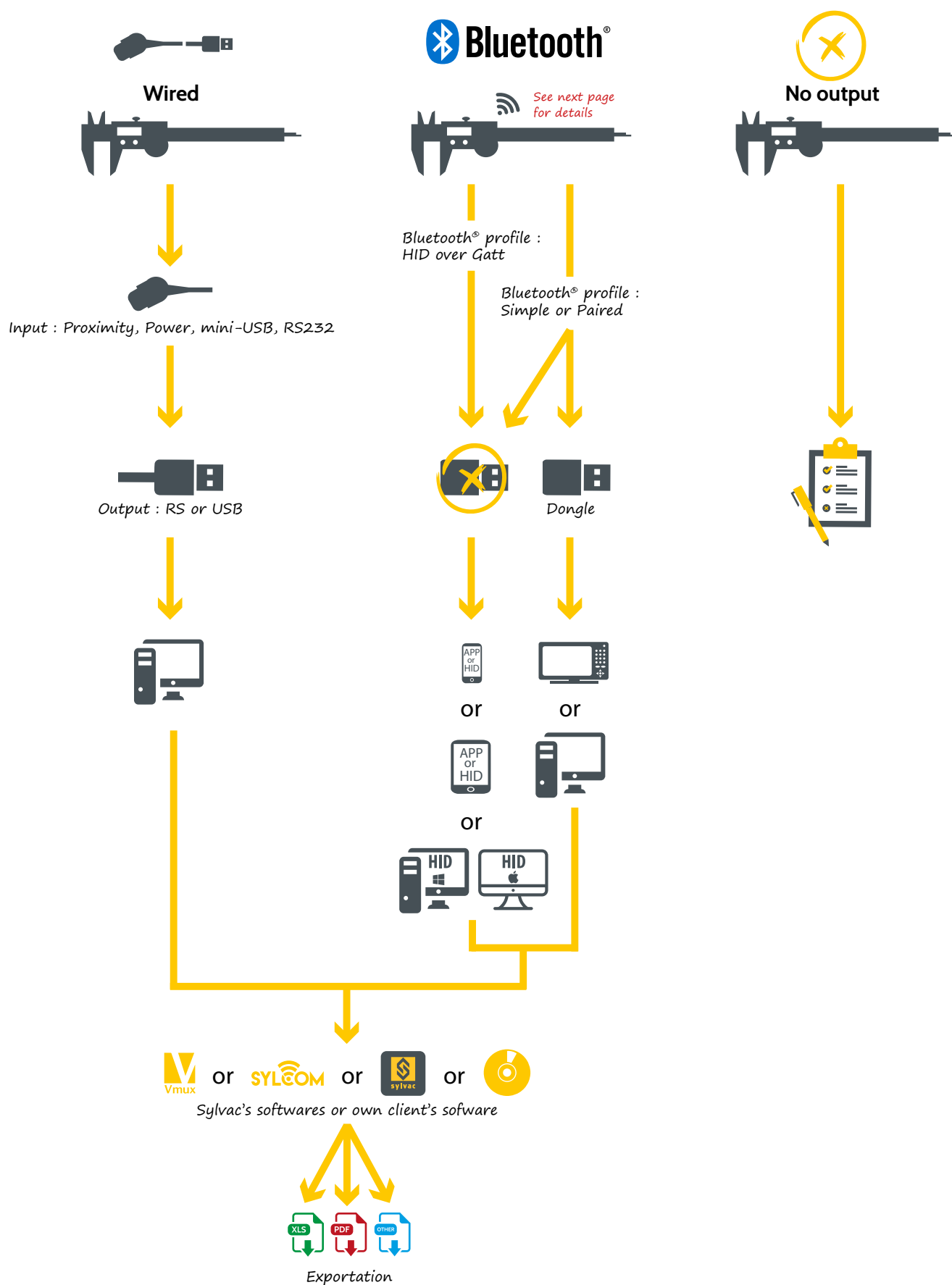
Bluetooth® Wireless technology via HID



Bluetooth® Wireless technology and USB

Data transmission and software

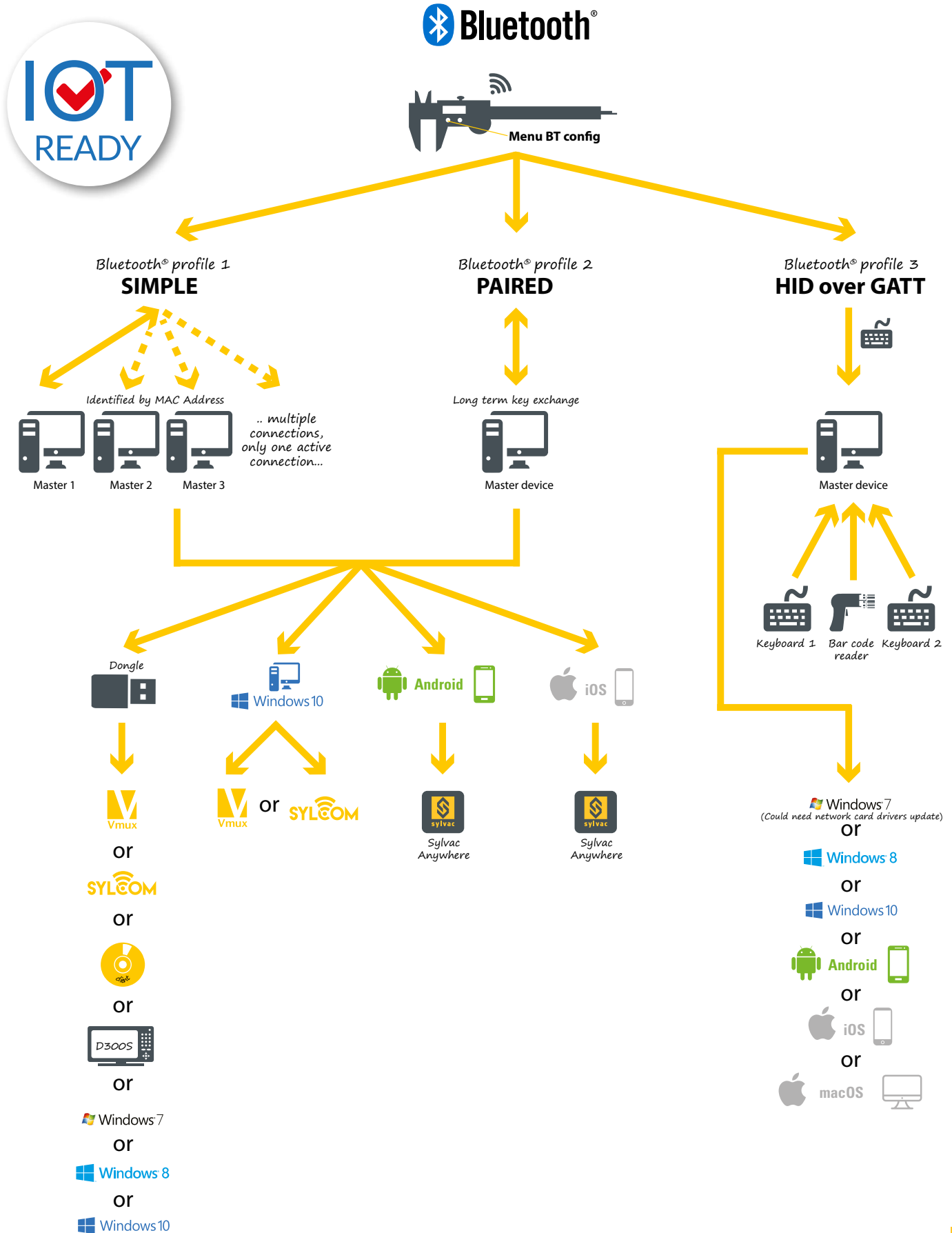
CONNECTIONS POSSIBILITIES



Data transmission and software

WIRELESS CONNECTION PROFILES

A



Sylvac softwares

DATA TRANSFER

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.

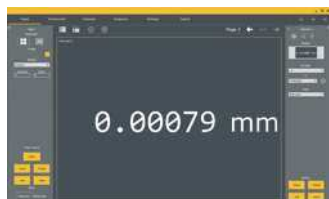


Free Sylcom LITE version on www.sylvac.ch

A free version **Sylcom Lite**, limited to one connection can be downloaded free of charge from our website. The full version of **Sylcom Standard** with the capacity to connect up to 16 instruments, the **Sylcom Advanced** version (Additional package) with the capacity to connect up to 128 instruments (max. 40 instruments with Bluetooth® Wireless technology with advanced functions and connections to M-Bus modules) and the **Sylcom Pro** (Additional package, contains Sylcom Advanced, or full version) version with control plans, can be purchased online from our website or from the Sylvac distributor in your country. Further modules will be available in the future to expand the possible uses of Sylcom.

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.



Channel display




Multi-channel display with colour-coded tolerances



Statistics



Control plans

Softwares 	Order number Dongle licence	Order number Digital licence	Accessories	Order number
Sylcom LITE	-	FREE	Dongle Smart	981.7100
Sylcom Standard	981.7132	981.7129	USB pedal	926.7020
Sylcom Advanced	981.7232	981.7235	USB pedal robust	926.7021
Sylcom Pro	981.7240	981.7245	Footpedal Smart	926.7022
Upgrade Sylconnect to Sylcom*	981.7139	-		

* contact us to get the procedure for the update

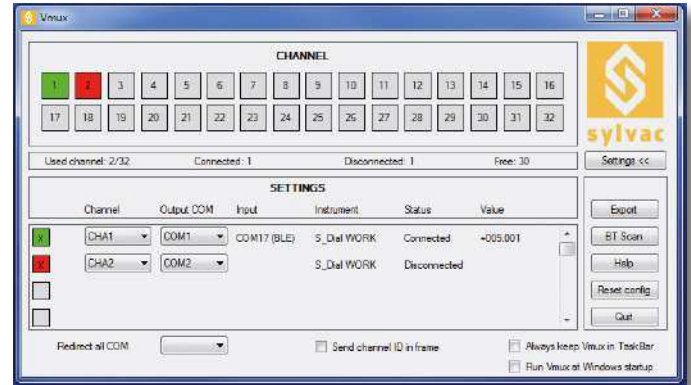
Applications

DATA TRANSFER

Vmux

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 (SPC or other).

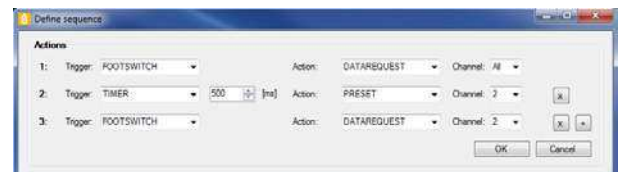
For the simplest applications Vmux simply exports the values into a selectable Excel file. Extremely user-friendly, Vmux is an excellent replacement for the multiplexer boxes used in the past.



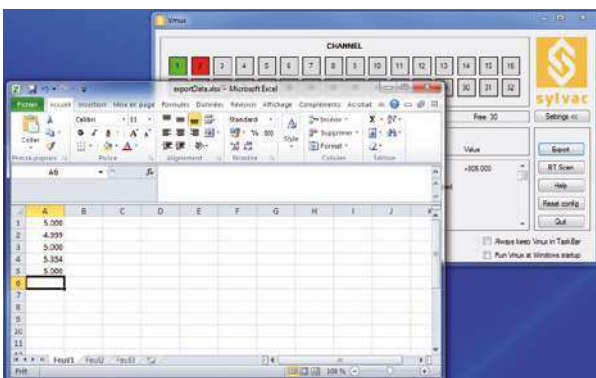
A free version Vmux Lite, limited to one connection can be downloaded free of charge from our website. The full version of Vmux with the capacity to connect up to 32 instruments (max. 16 instruments with wireless Bluetooth® transmission) can be ordered from the Sylvac distributor in your country.



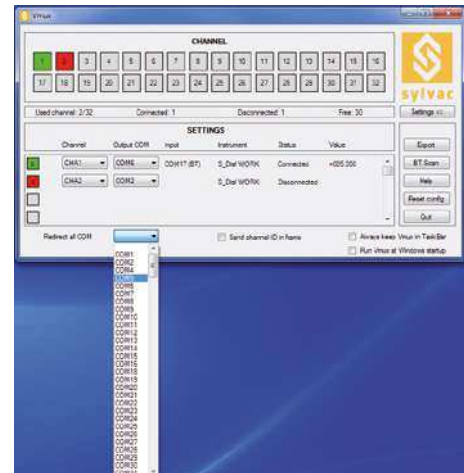
Basic display



Defining a sequence



Exporting data in Excel®



Port COM changing



Softwares **Vmux**

Order number

Vmux LITE

FREE

Vmux (Dongle licence)

981.7161

Vmux (Digital licence)

981.7163

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

Accessories

Order number

Dongle Smart

981.7100

USB pedal

926.7020

USB pedal robust

926.7021

Footpedal Smart

926.7022

Applications

DATA TRANSFER

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.

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.



Display



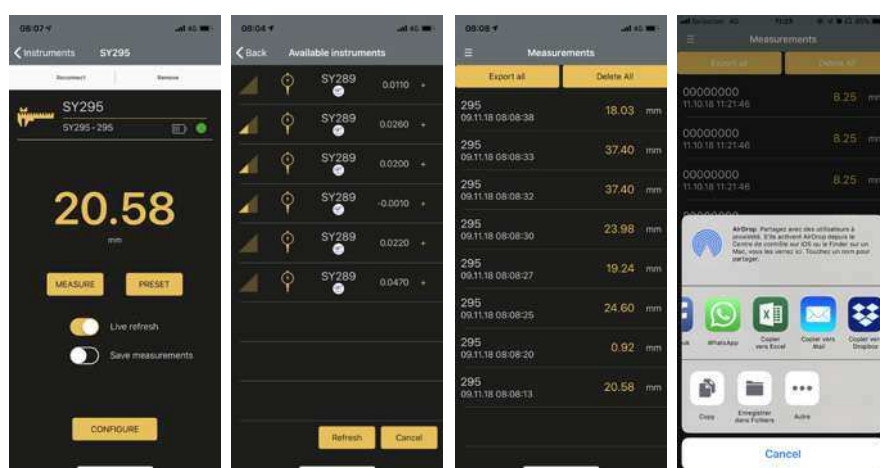
Save



Export



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



Instrument connected

Available instruments

Data saved

Exportation of data

No dongle required !



Various softwares

OVERVIEW OF SOFTWARE AND FUNCTIONS

A

	SYLCOM					VMUX	
	LITE	Standard	Advanced	PRO	Upgrade from Sylconnect	LITE	Standard
		981.7132/29	981.7232	981.7240	981.7139		981.7161
NUMBER OF INSTRUMENTS							
Max. 1	•					•	
Max. 16		•			•		
Max. 32							• ¹⁾
Up to 128			• ²⁾	• ²⁾			
PLATFORMS							
Windows 7	•	•	•	•	•	•	•
Windows 8.1	•	•	•	•	•	•	•
Windows 10	•	•	•	•	•	•	•
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)	•	•	•	•	•		

¹⁾ Max. 32 USB or 16 USB and 16 instruments with Bluetooth® Wireless technology

²⁾ via Mbus (depends on hardware), max. 40 instruments with Bluetooth® Wireless technology (5 dongles)

Wireless transmission

Dongle Smart

DESCRIPTION

- Possibility to connect up to 8 instruments per dongle
- Duplex data transmission
- Plug and play !
- Individual identification of each instrument with *Bluetooth®* wireless technology
- Automatic detection of instruments



TECHNICAL SPECIFICATIONS

		981.7100
USB		•
Coupled instruments per module		8
Automatic detection of instrument		•
Instruments and software compatibility		D300S & Sylcom & Vmux
Transmission distance ¹⁾	m	15

¹⁾ depends on the environment.

Wireless transmission

S_Footswitch Smart

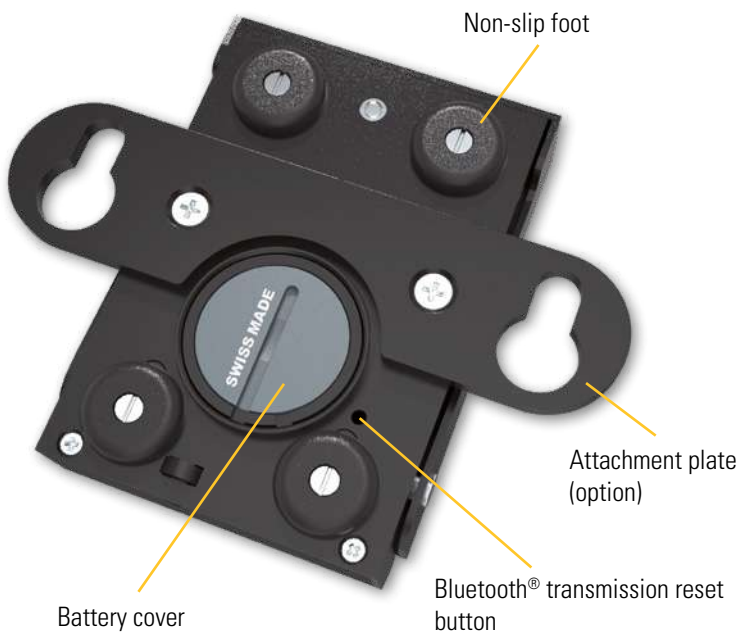
DESCRIPTION

FOOTPEDAL SMART

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



Status LED (low battery, Bluetooth® transmission)



Dongle with Bluetooth® Wireless technology 981.7100



TECHNICAL SPECIFICATIONS

S_Footswitch Smart		926.7022
Connection		Bluetooth® wireless technology*
Weight	g	260
Software compatibility		Vmux (1.37 and later) and Sylcom
Transmission distance ¹⁾	m	up to 15m

¹⁾ depends on the environnement

* Connection with dongle #981.7100

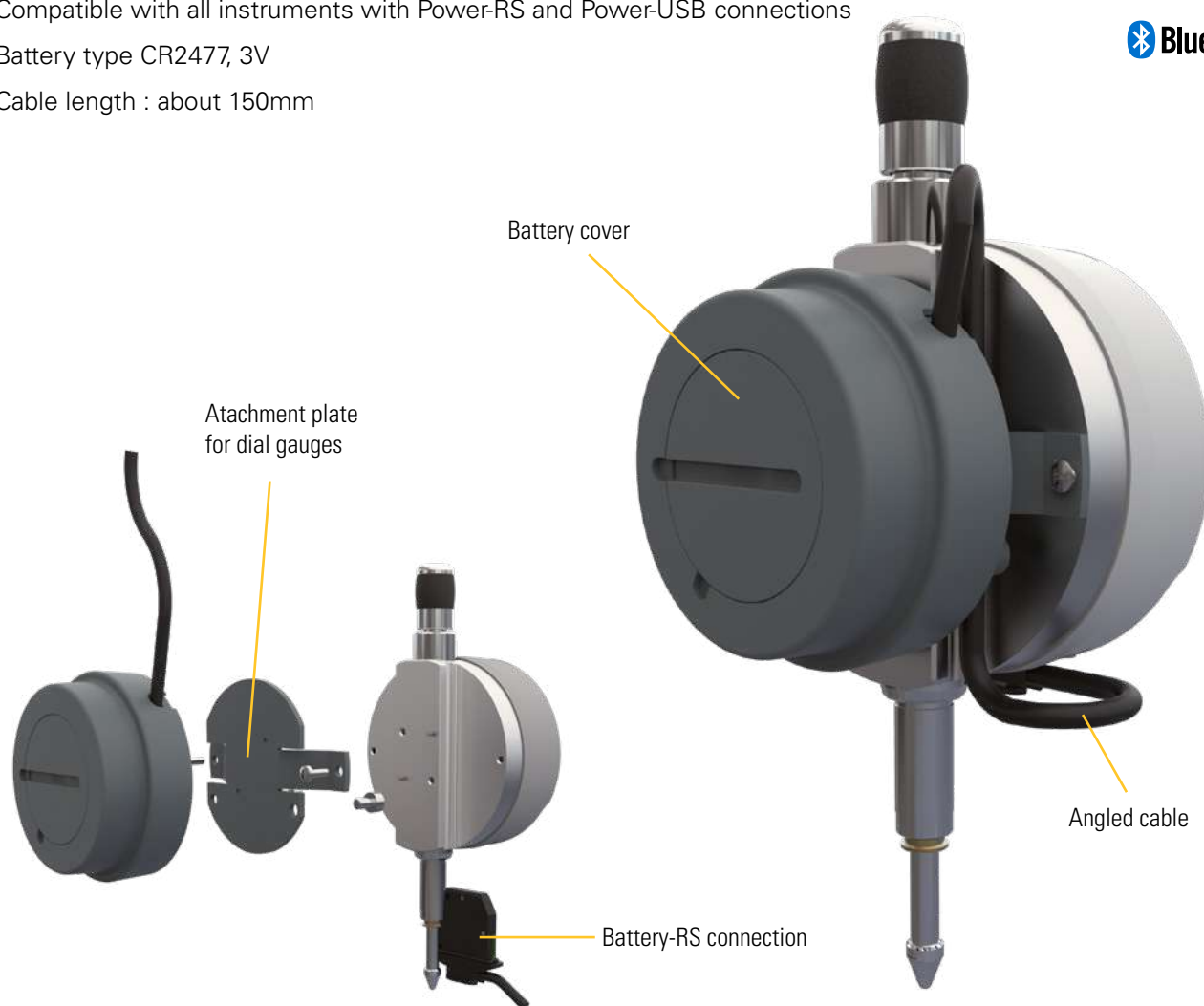
Accessories		926.7023	985.2217
Description		Fixing plate	Adapter for battery CR2032
Weight	g	85	5

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



TECHNICAL SPECIFICATIONS

Battery Pack		926.7024
Connections		Power-RS / Battery-RS
Weight	g	71.6 (91.4g with attachment 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

A

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 Smart¹⁾ and benches table PS16 V2¹⁾



Battery CR2477

985.2216

Ultra-light calipers ULX4. benches table PS16 V2, footpedal Smart, Battery Pack

¹⁾ With adapter

CONNECTION

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)







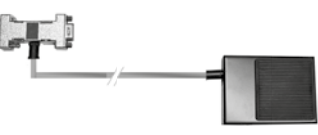




Cables

S_Connect

CONNECTION

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S_Cal Pro / S_Mike Pro	UL4	S_Depth PRO S_Scale WORK	Protractor	S_Dial S233 / S234	S_Dial ONE / S_Dial WORK S_Dial PRO / Hi_Gage ONE	Xtreme 2	Digital microscrew	Hi_Cal	PS16 V1 VS	S_View D50S / D80S PC output	S_View D200S	D300S instr. input	D300S output PC	D302 / D304	D400S	D70S/H/I	S_Dial WORK PLC
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		•	•	•	•	•	•					•					
																	•

		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 7m (Standard 5m)

²⁾ must be connected with bi-directional cables only

* The D70 and D400S do not work on Vmux with this adapter

Cables

S_Connect

CONNECTION

A

S_Cal Pro / S_Mike Pro	UL4	S_Depth PRO / S_Scale WORK	Mesureur d'angles	S_Dial S233 / S234	S_Dial ONE / S_Dial WORK Hi_Gage ONE	PS16 V2	Digital microcrew	Hi_Cal	PS16 V1 VS	S_View D50S / D80S PC output	S_View D200S	D300S instr. input	D300S output PC	D302 / D304	D400S	D70 H/I	D70 S	D70 A	D62S	Xtreme 3	M-Bus (except RS)	Z5
•	•		•		•	•						•								•		
•	•		•		•	•						•								•		
								•		•	• 6)	• 6)		•	• 4)		•		•		•	
											•		•		•							
						•		•						•					•			•
3)	3)	3)	3)	3)	3)		3)	3)	3)	•	•				• 5)	• 5)	• 5)	• 5)	•	3)		
3)	3)	3)	3)	3)	3)		3)		3)											3)		
																						•
																• 7)		• 7)				
																• 8)		• 8)				
																		• 9)				

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 indicators are most the popular instruments of our range, having made the reputation of Sylvac since decades.

Sylvac digital indicators are available in a multitude of models, covering a measuring range up to 150 mm with a resolution up to 0.1 micron. Discover in this chapter the widest choice of the market!

Sylvac inductive measuring system (patented)

Wireless Bluetooth® transmission available

Power supply: Lithium battery 3V, Type CR 2032

Operational temperature: +5 to +40°C



Digital indicators

S_Dial

SUMMARY OF ALL TYPES

	S_Dial MINI								S234		BASIC						S_Dial WORK		ANALOG		CBG ADVANCED IP67		PLC				
	805.4121	805.4125	805.4521	805.4525	805.6121	805.6125	805.6521	805.6525	905.4321	905.4322	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
RANGE																											
0.5 mm																											
0.8 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 44 mm																											
Diameter 45 mm																											
Diameter 60 mm																											
Rotating																											
FUNCTIONS																											
mm/inch																											
Preset																											
Preset onMin/Max																											
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																											

S_Dial

SUMMARY OF ALL TYPES

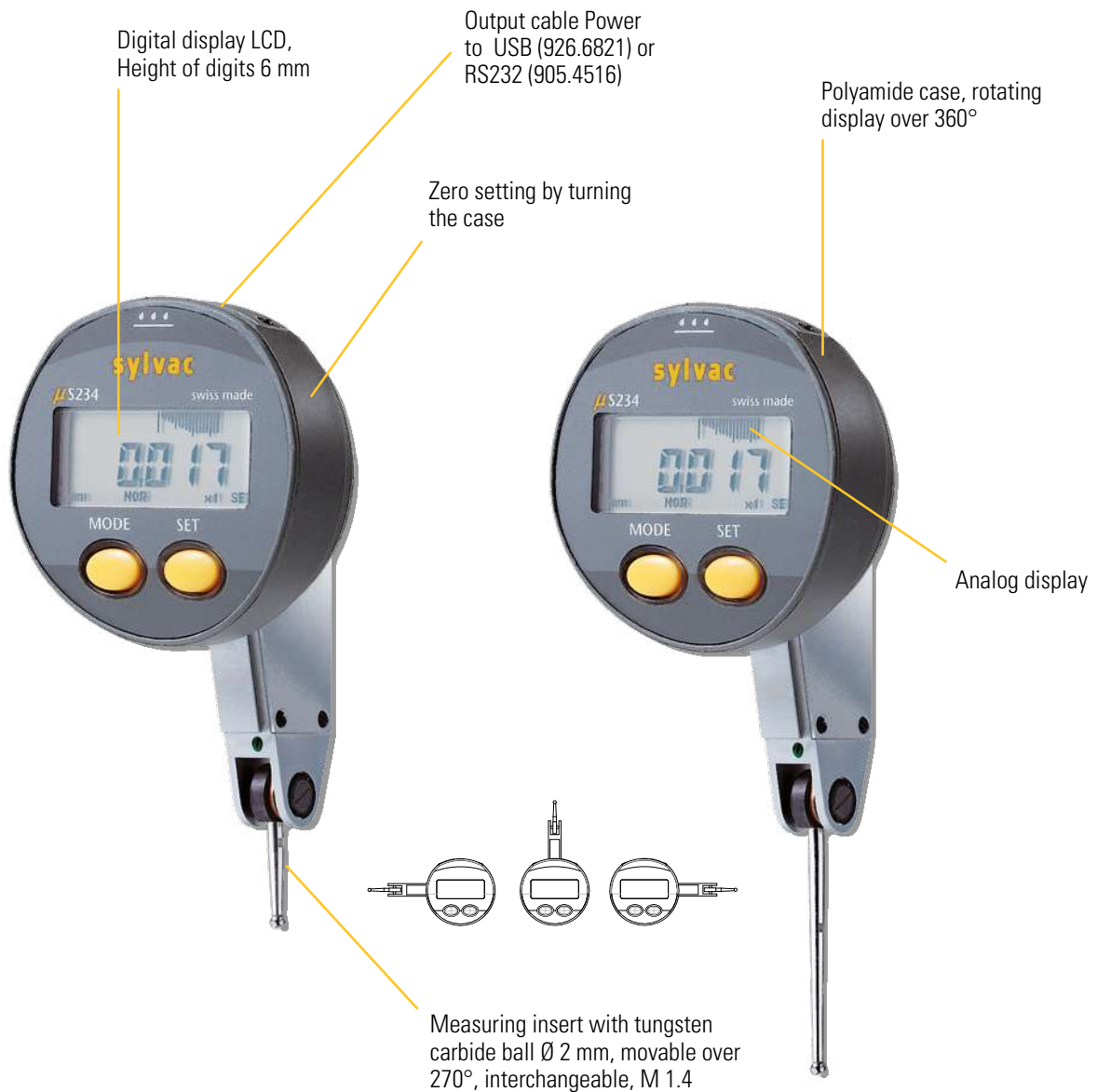
		S_Dial WORK												NANO & NANO SMART			ANALOG NANO SMART		S_Dial PRO BASIC									
		ADVANCED						Smart																				
		805.5201	805.5301	805.5401	805.5501	805.5601	805.5621	805.5641	805.5661	805.5671	805.5681	805.6301	805.6501	805.6621	805.6661	805.5306	805.5506	805.6306	805.6506	805.6307	805.6507	805.8601	805.8701	805.8602	805.8702	805.8501	805.8502	805.8661
RANGE																												
	0.5 mm																											
	0.8 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 44 mm																											
	Diameter 60 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Rotating	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
FUNCTIONS																												
	mm/inch	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Preset	●	●	●	●	●		●	●	●	●		●	●	●		●	●	●	●	●	●	●	●	●	●	●	
	Preset on Min/Max																			●	●							
	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 / II	●	●	●	●	●	●	●	●	●	●		●	●	●		●	●	●		●		●	●	●	●	●	

Digital test indicators

S_Dial S234

DESCRIPTION

- Digital and analog display
- Water and coolant resistant IP65
- Data output RS 232 combined with external power
- Automatic switch OFF
- Stem Ø 8 mm and dovetail back
- Rotating display over 360°



POWER

SWISS
MADE

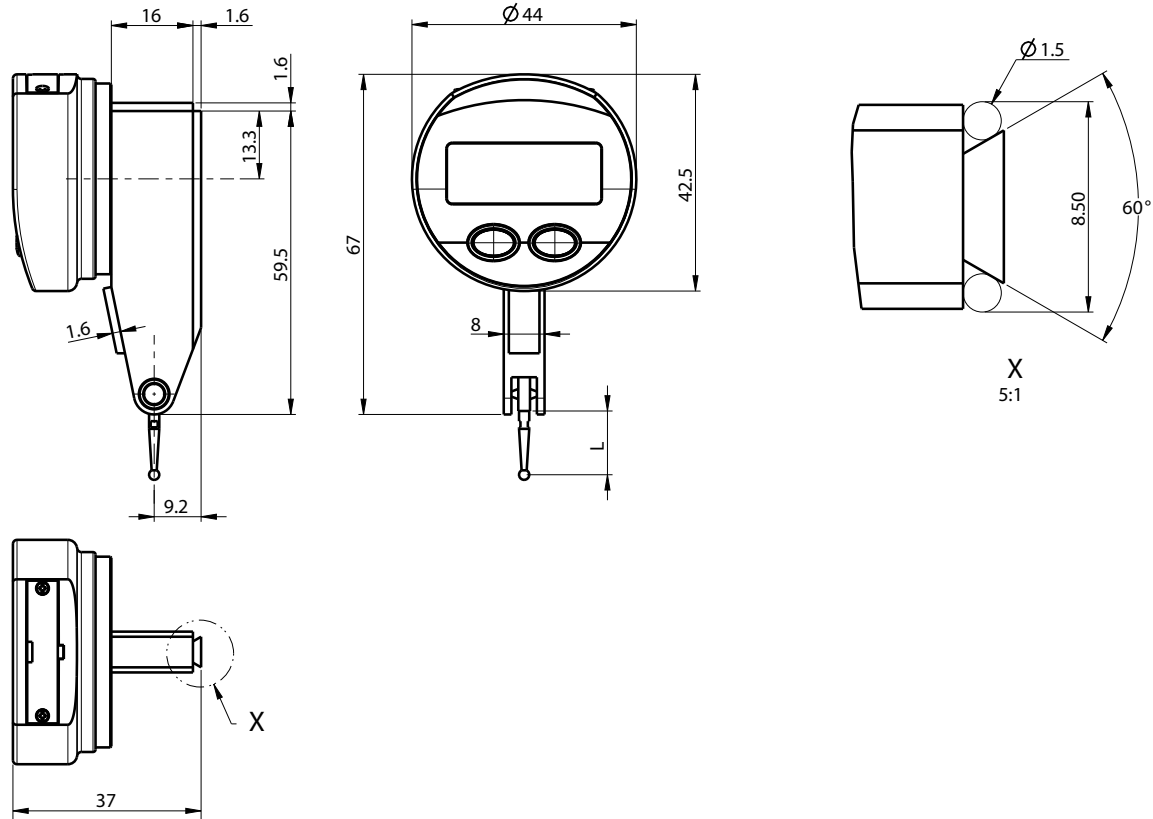
WATER RESISTANT

IP65

Digital test indicators

S_Dial S234

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		905.4321	905.4322
Measuring range	mm	0.8	0.5
Probe length	mm	12.5	36.5
Max Error fe	µm	10	10
Hysteresis fu	µm	3 ¹⁾	4 ¹⁾
Resolution	mm	0.001	0.001
Repeatability	µm	3	3
Measuring force	N	0.13 ± 15%	0.035 ± 30%
Weight	g	75	75
Protection rating according to IEC 60529		IP65	
Output data		USB / RS232 ²⁾	
Zero setting		●	
min / max / delta display		●	
Analog scale range ratio		●	
Selection of resolution		●	
Preset		max 99.999	

¹⁾ ± 1 digit

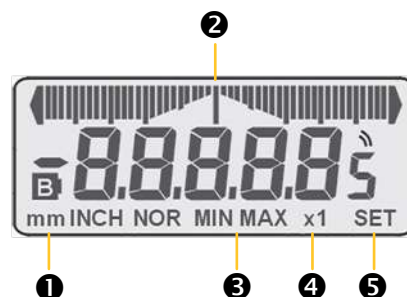
²⁾ see cables chapter

Digital test indicators

S_Dial S234

DISPLAY

- ➊ Direct mm/inch conversion
- ➋ Analog display
- ➌ Min/max/delta mode
- ➍ Analogic resolution display
- ➎ Zero setting



STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Stem Ø 8 mm

APPLICATIONS



Run-out measurement



Checking the alignment on milling machine.



Perpendicularity measurement with a S234 mounted on a Hi_Gage ONE

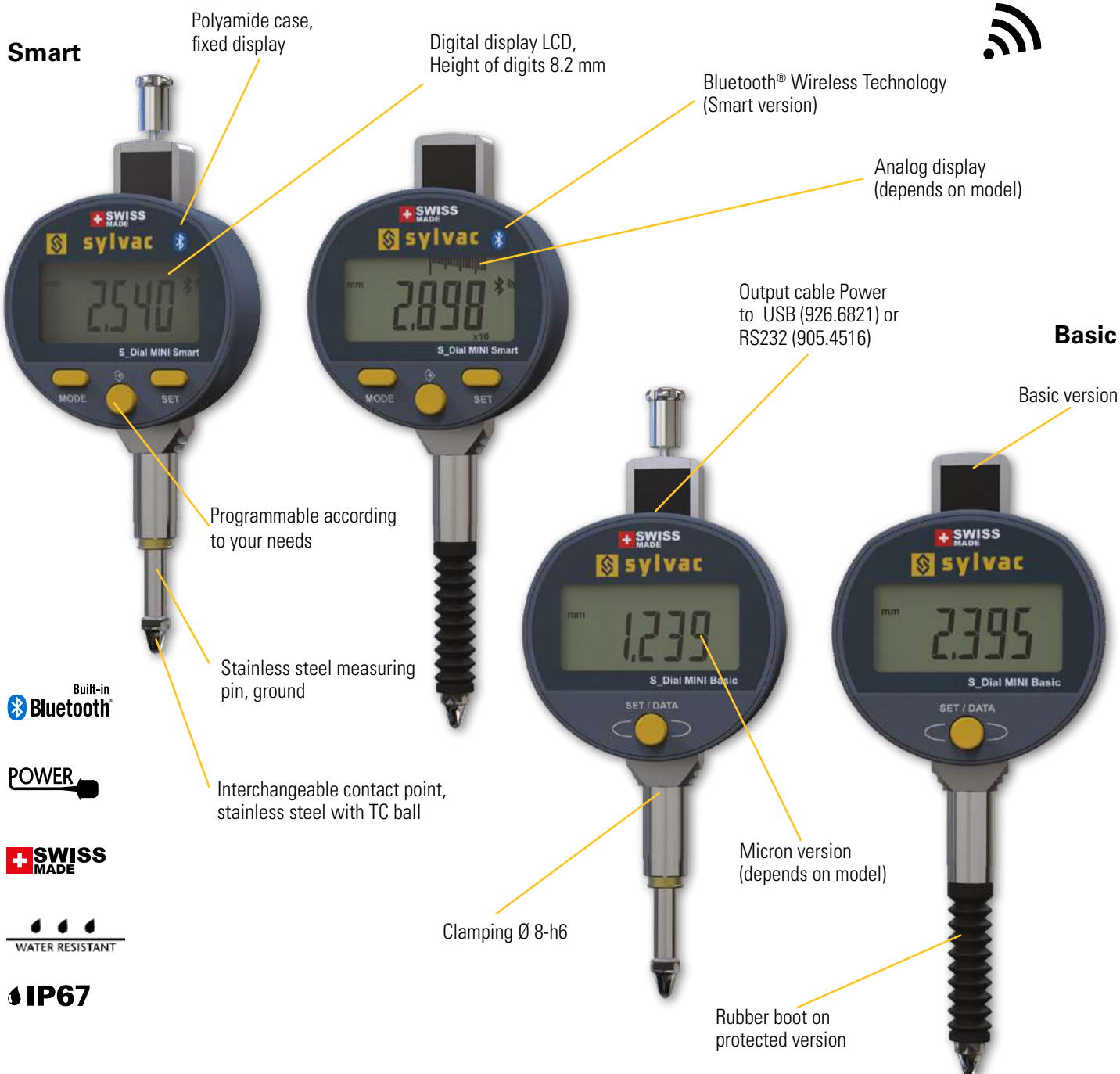
Mini digital indicators

S_Dial Mini

DESCRIPTION

- Compact, small diameter (Ø45 mm)
- Water and coolant resistant, protection rating IP54 or IP67 according to IEC 60529 (depends on model)
- Data output RS 232 combined with external power supply and Bluetooth® (depends on model)
- Interchangeable contact point M2.5
- Clamping stem Ø 8-h6 of hardened and ground stainless steel. Dovetail back
- Automatic power shut down

Smart



Mini digital indicators

S_Dial Mini

TECHNICAL SPECIFICATIONS

B	Basic		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
	Max. Error fe	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)		---			
	Min / max / delta display		---			
	Selection of measuring direction		---			
	Multiplication factor		---			
	Output data		USB / RS232 ⁴⁾			
	IP rating		IP54	IP67	IP54	IP67

	Smart		805.6121	805.6125	805.6521	805.6525
	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
	Max. Error fe	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)		●			
	Min / max / delta display		●			
	Selection of measuring direction		●			
	Multiplication factor		●			
	Output data		Bluetooth® wireless technology* / RS232 / USB ⁴⁾			
	IP rating		IP67	IP67	IP67	IP67

*** Up to 8 instruments connected per dongle #981.7100**
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

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

STANDARD DELIVERY

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

B

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 $\pm 20\%$, indicator in vertical position, spindle in outgoing measurement.

¹⁾ on request

APPLICATIONS



Checking of an internal \varnothing with a mechanical device



Measurement of the vertical displacement of an element



Measurement of internal chamfer

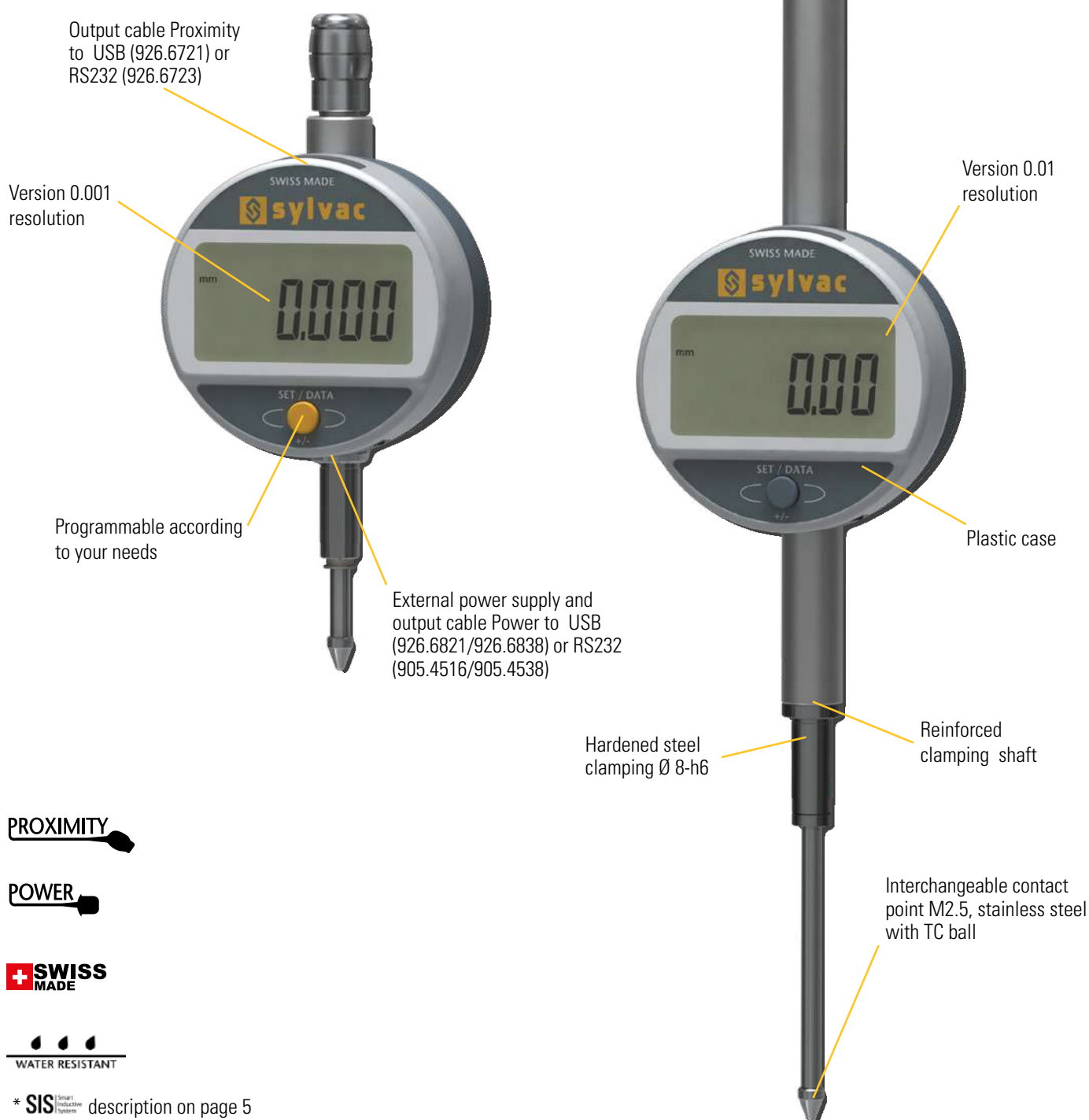
Digital indicators

S_Dial WORK

DESCRIPTION

BASIC

- Robust construction
- Water and coolant resistant
- **Standard functions (mm/inch, set, direction of measurement)**
- Automatic wake-up and sleeping mode, **Absolute System S.I.S***



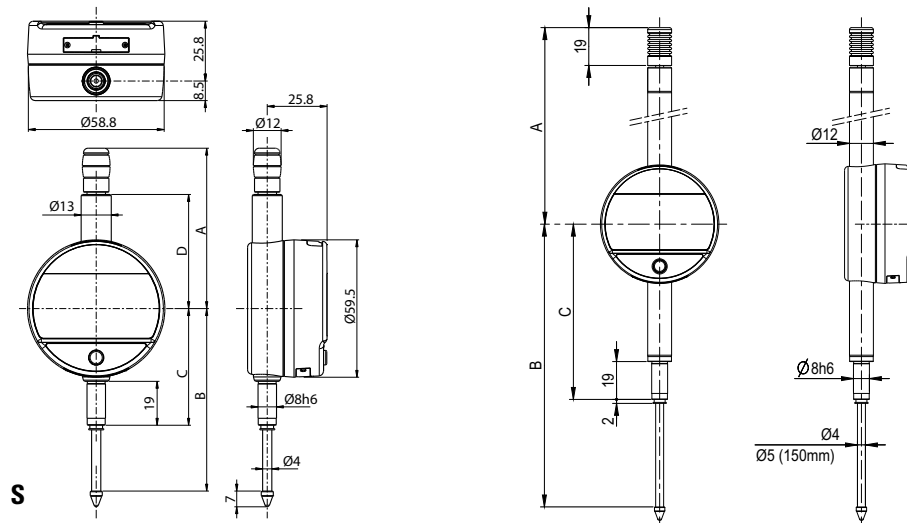
* SIS description on page 5

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. Error fe	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 (only programmable by PC with cable) mm/inch, max 999.999), direction of measurement					

¹⁾ ± 1 digit

STANDARD DELIVERY

MEASURING FORCE

		S 12.5	S 25	S 50
• Instrument according to technical specifications				
• Lithium battery CR2032 included				
• Instruction manual				
• Calibration certificate for instruments 0.001 mm				
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

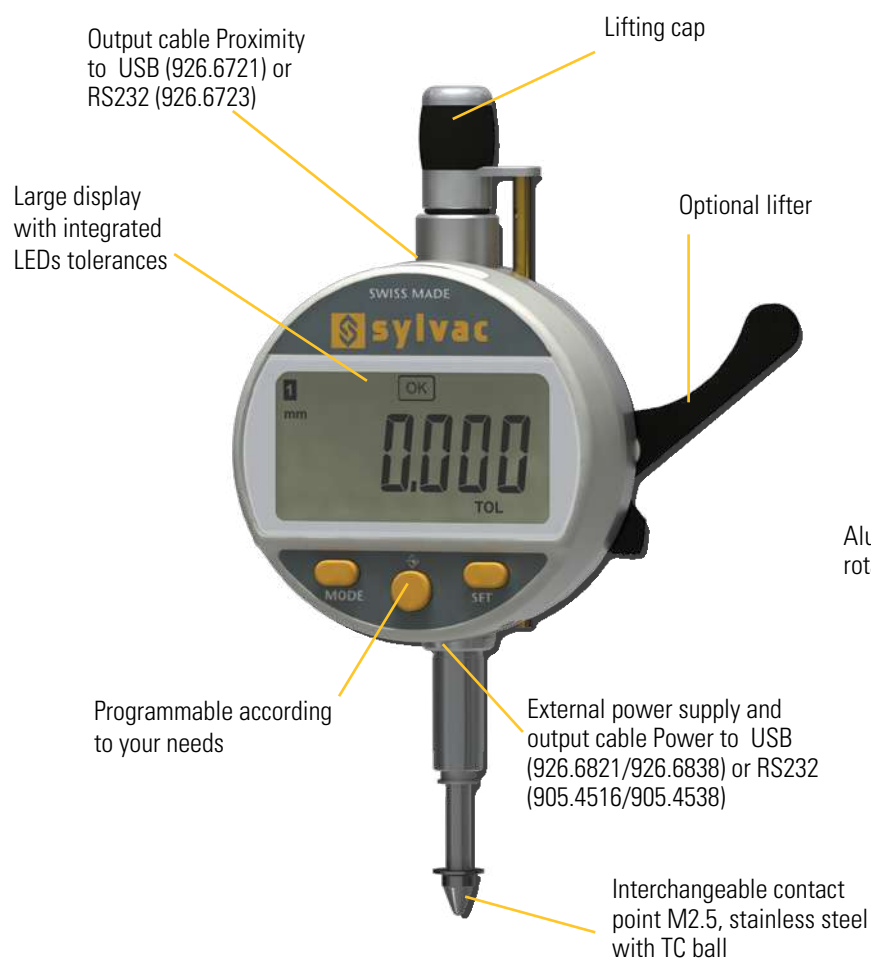
Digital indicators

S_Dial WORK

DESCRIPTION

ADVANCED

- Robust construction
- Water and coolant resistant
- New technology with configurable menus
- **Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc.)**
- Automatic wake-up and sleeping mode, **Absolute System S.I.S***
- **Maximum error of 3 µm**



Aluminium case rotating display over 270°

Reinforced clamping shaft

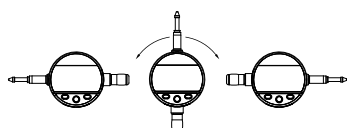
Hardened steel clamping Ø 8-h6

PROXIMITY

POWER

SWISS MADE

WATER RESISTANT



* SIS description on page 5

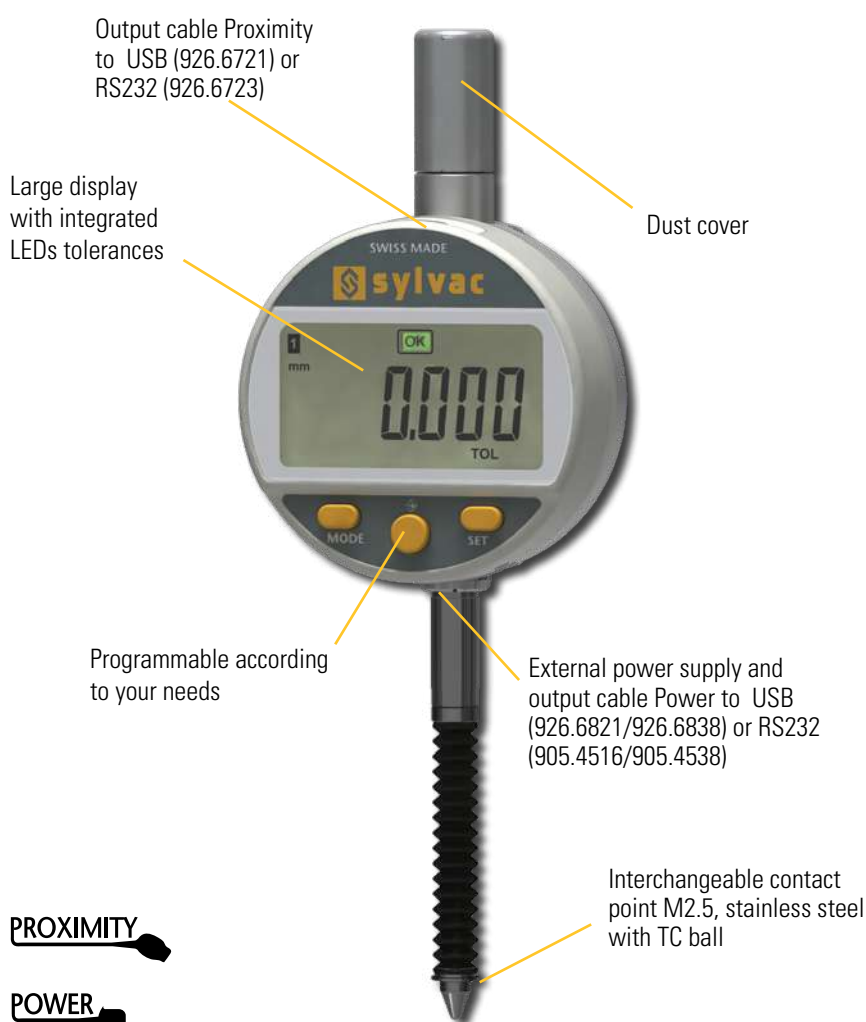
Digital indicators

S_Dial WORK

DESCRIPTION

ADVANCED IP67

- Robust construction
- Water and coolant resistant
- Protection rating IP67 according to IEC 60529, **even connected**
- New technology with configurable menus
- **Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc.)**
- Automatic wake-up and sleeping mode, **Absolute System S.I.S**
- **Maximum error of 3 µm**

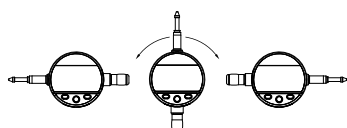


SWISS MADE

WATER RESISTANT

IP67

* SIS description on page 5



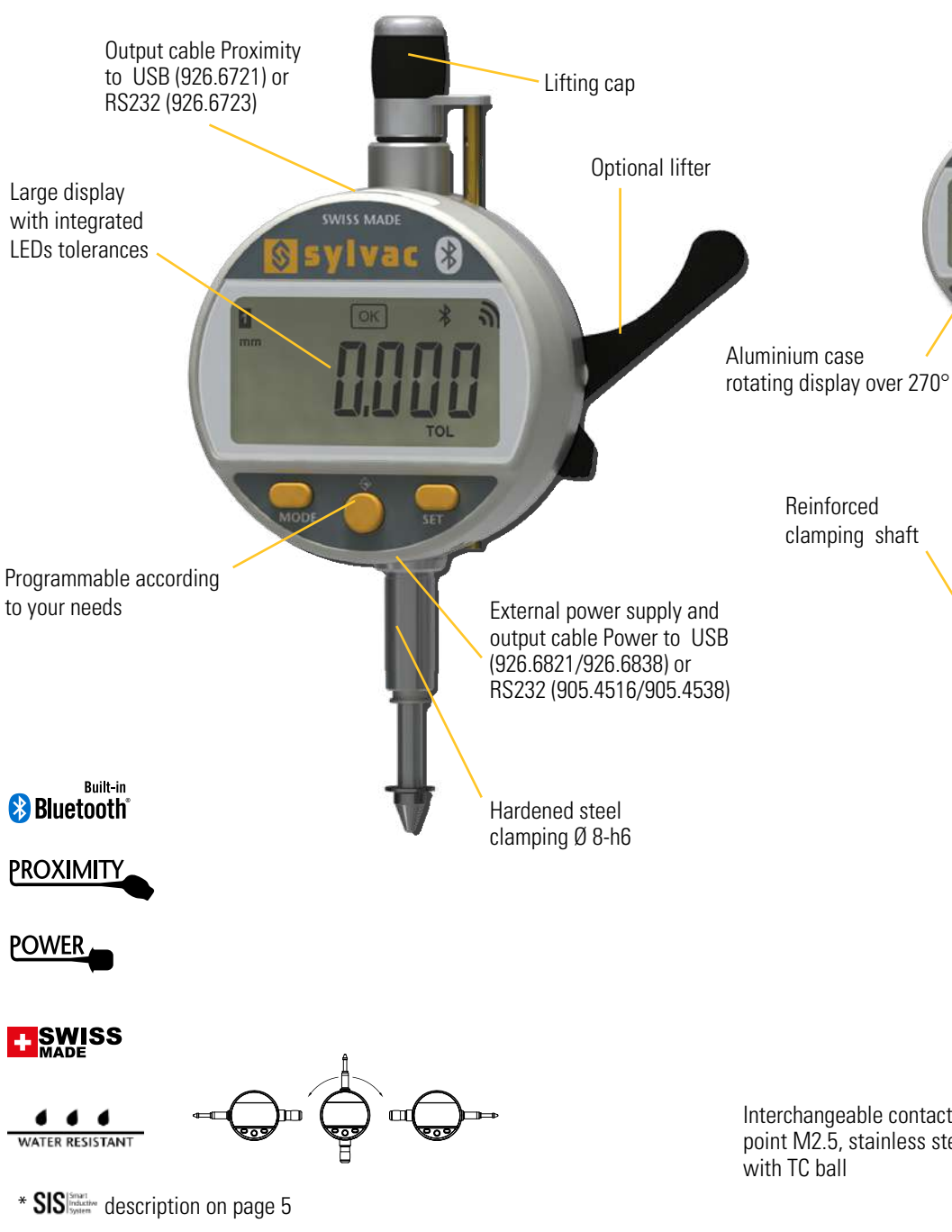
Digital indicators

S_Dial WORK

DESCRIPTION

SMART

- **Integrated Bluetooth® Wireless technology**
- Robust construction
- Water and coolant resistant
- New technology with configurable menus
- **Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc.)**
- Automatic wake-up and sleeping mode, **Absolute System S.I.S***
- **Maximum error of 3 µm**



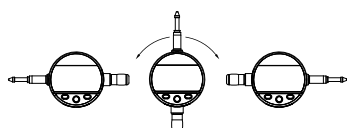
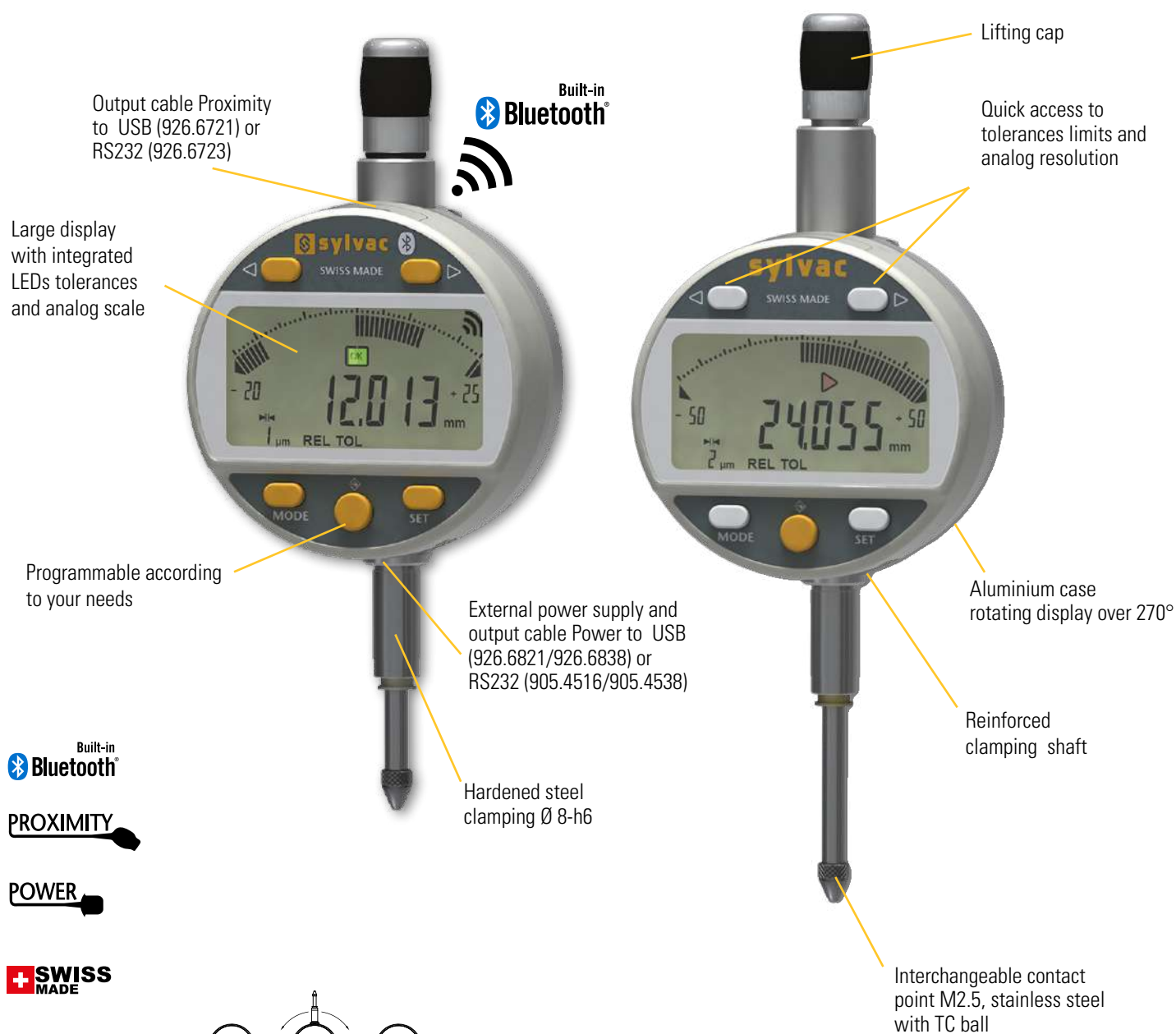
Digital indicators

S_Dial WORK

DESCRIPTION

ANALOG & ANALOG SMART

- **Data outputs Power and Proximity or Bluetooth® (depends on model)**
- **Adaptive analog display (up to 0.2 μm per segment)**
- Robust construction
- Water and coolant resistant
- New technology with configurable menus
- **Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc.)**
- Automatic wake-up and sleeping mode, **Absolute System S.I.S***
- **Maximum error of 3 μm**



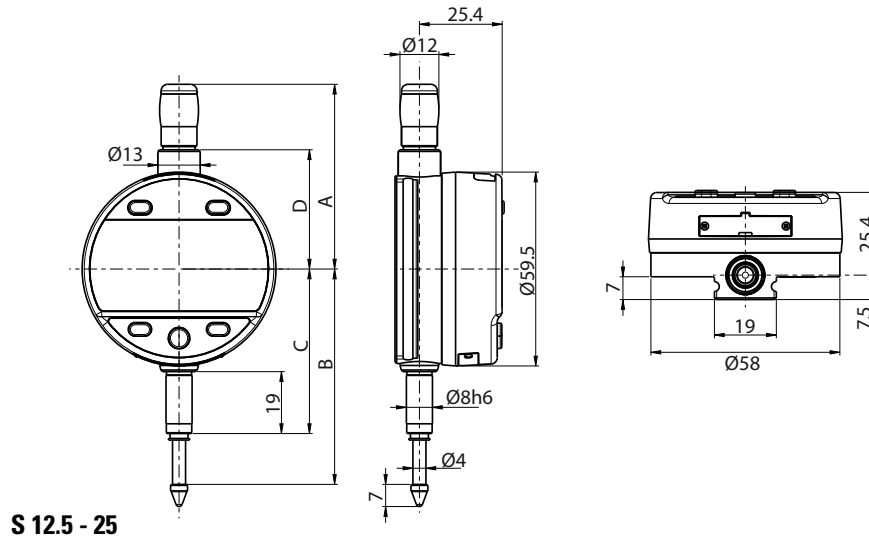
* SIS description on page 5

Digital indicators

S_Dial WORK

DIMENSIONAL DRAWINGS

ANALOG & ANALOG SMART



TECHNICAL SPECIFICATIONS

		805.5307	805.5507	805.6308
Measuring range	mm	12.5	25	12.5
Resolution	mm	0.001		
Max. Error fe	µm	3	4	3
Repeatability	µm	2		
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		

¹⁾ ± 1 digit

STANDARD DELIVERY

MEASURING FORCE

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

		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

- **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



Built-in Bluetooth®

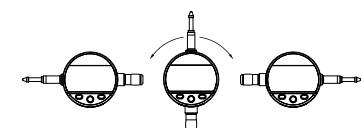
PROXIMITY

POWER

SWISS MADE

WATER RESISTANT

* SIS description on page 5



Hardened steel clamping Ø 8-h6

Lifting cap

Aluminium case rotating display over 270°

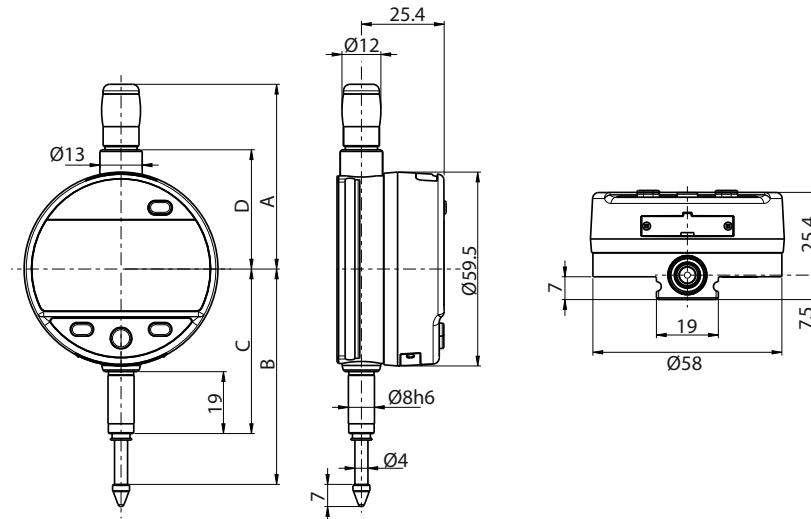


Digital indicators

S_Dial WORK

DIMENSIONAL DRAWINGS

CBG



TECHNICAL SPECIFICATIONS

		805.6317
Measuring range	mm	12.5
Resolution	mm	0.001
Max. Error fe	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, direction of measurement, multiplication factor, automatic or manual switch off, key lock

¹⁾ ± 1 digit

STANDARD DELIVERY

MEASURING FORCE

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

		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

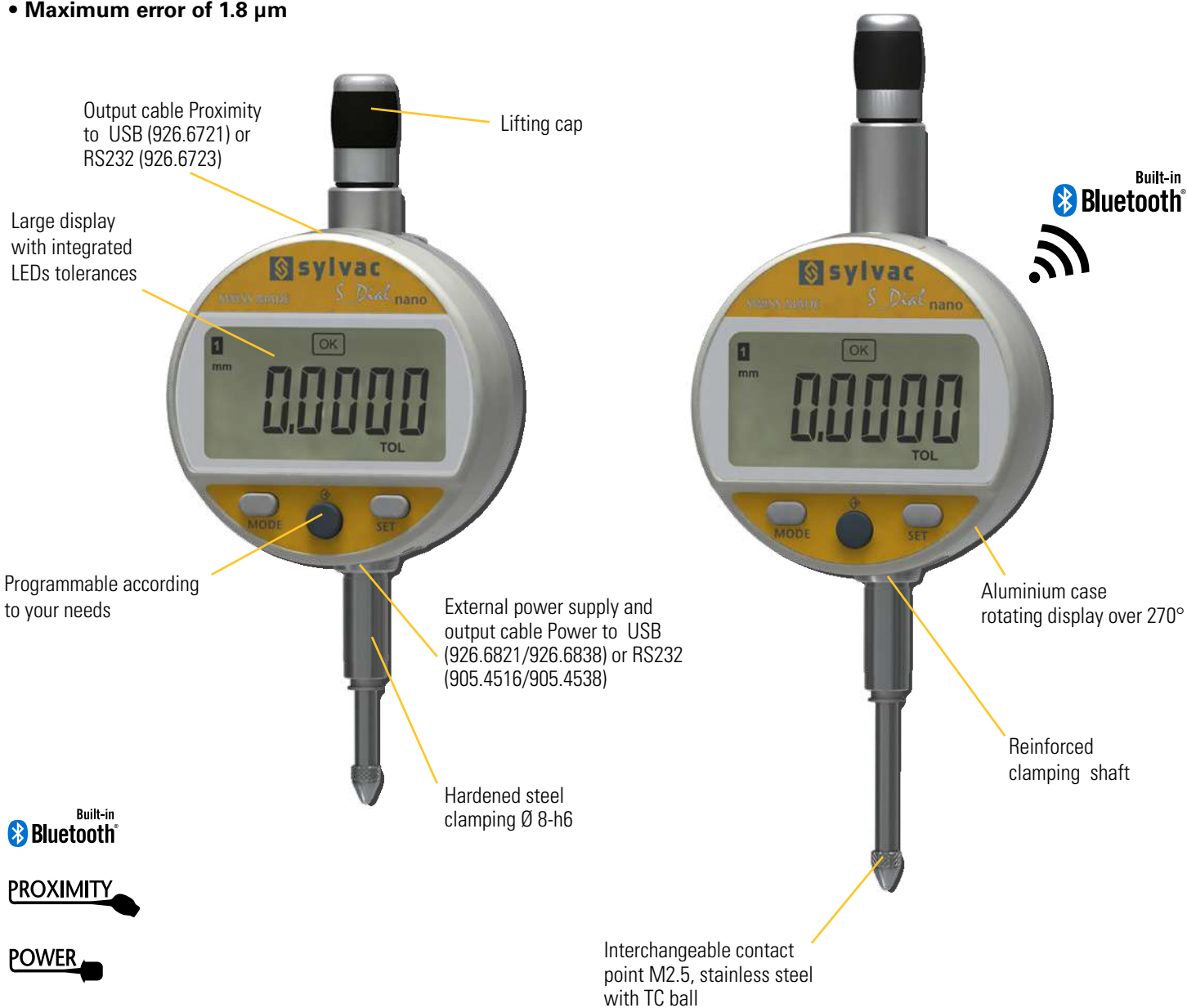
Digital indicators

S_Dial WORK

DESCRIPTION

NANO & NANO SMART

- **0,1 μm resolution**
- Robust construction
- Water and coolant resistant
- New technology with configurable menus
- **Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc.)**
- Automatic wake-up and sleeping mode, **Absolute System S.I.S***
- **Maximum error of 1.8 μm**



Max error 1.8 μm
Repeatability 0,5 μm

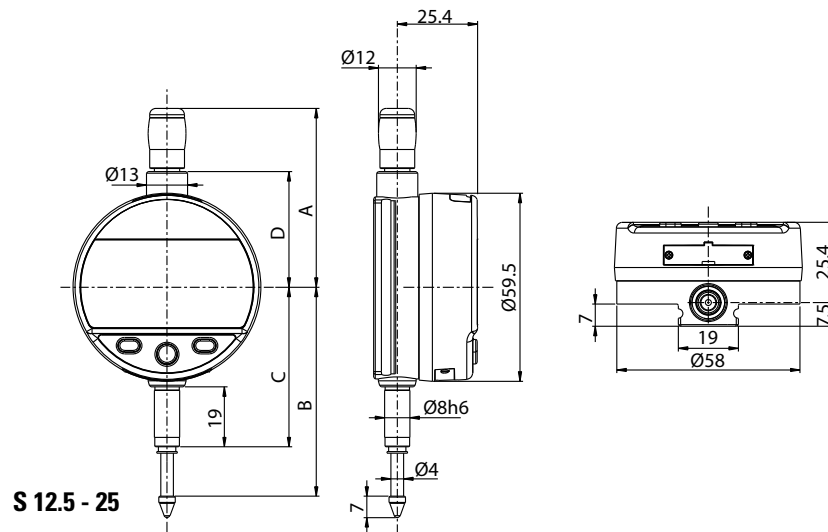
* SIS description on page 5

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. Error fe	µm	1.8	2.2	1.8	2.2
Repeatability	µm	0.5			
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, tolerances, resolution, direction of measurement, multiplication factor, automatic or manual switch off, key lock			

*** Up to 8 instruments connected per dongle #981.7100**
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

STANDARD DELIVERY

MEASURING FORCE

• Instrument according to technical specifications			S 12.5	S 25
• Lithium battery CR2032 included	Standard	N	0.65 - 0.90	0.65 - 1.15
• Instruction manual	Low ²⁾	N	0.4 - 0.55	0.45 - 0.9
• Calibration certificate	High ²⁾	N	1.0 - 1.6	0.9 - 1.8

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

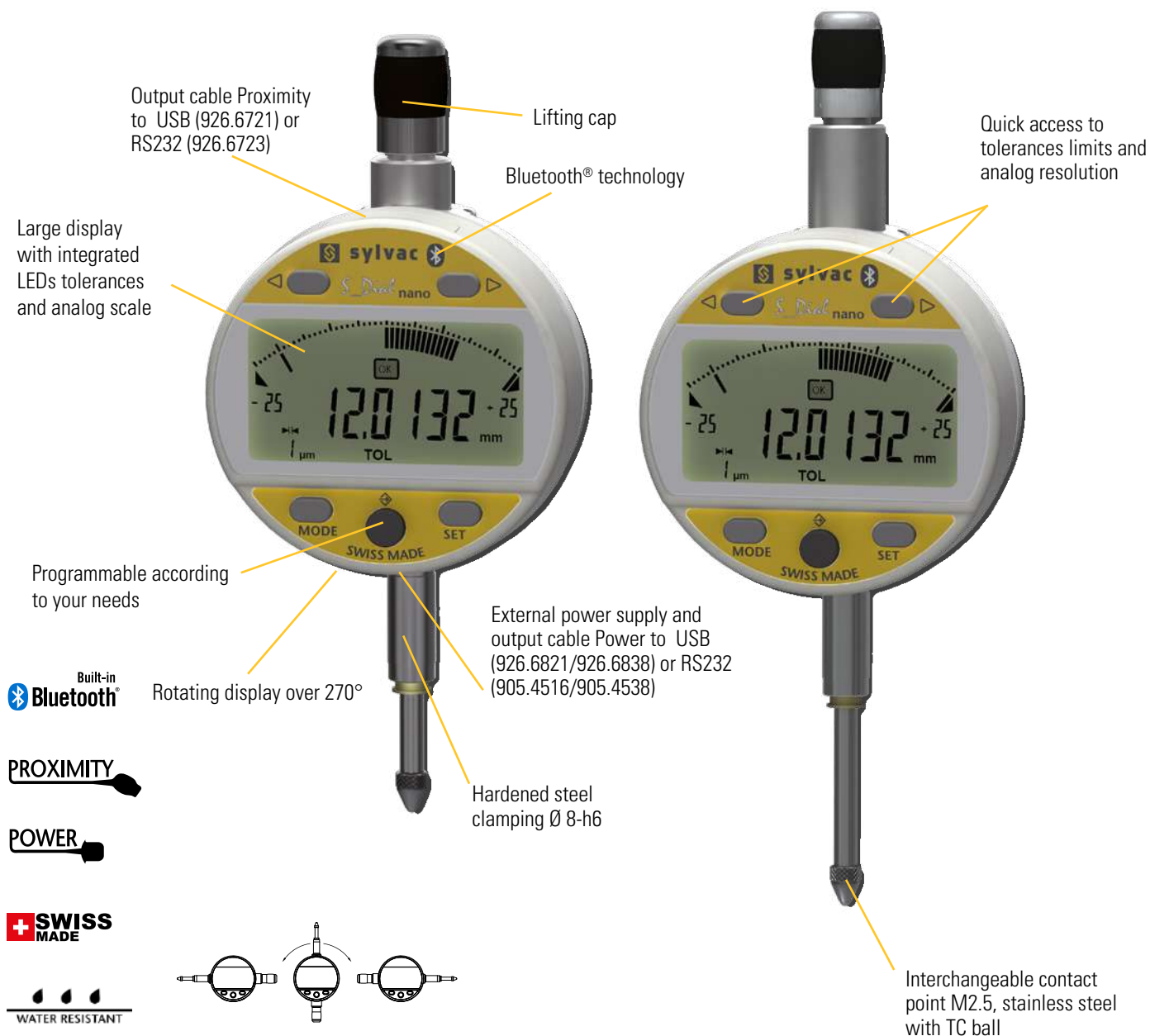
Digital indicators

S_Dial WORK

DESCRIPTION

ANALOG NANO SMART

- **Integrated Bluetooth® Wireless technology**
- Adaptive analog display (up to 0.1 μm per segment)
- **0,1 μm resolution**
- Robust construction
- Water and coolant resistant
- New technology with configurable menus
- **Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc.)**
- Automatic wake-up and sleeping mode, **Absolute System S.I.S***
- **Maximum error of 1.8 μm**



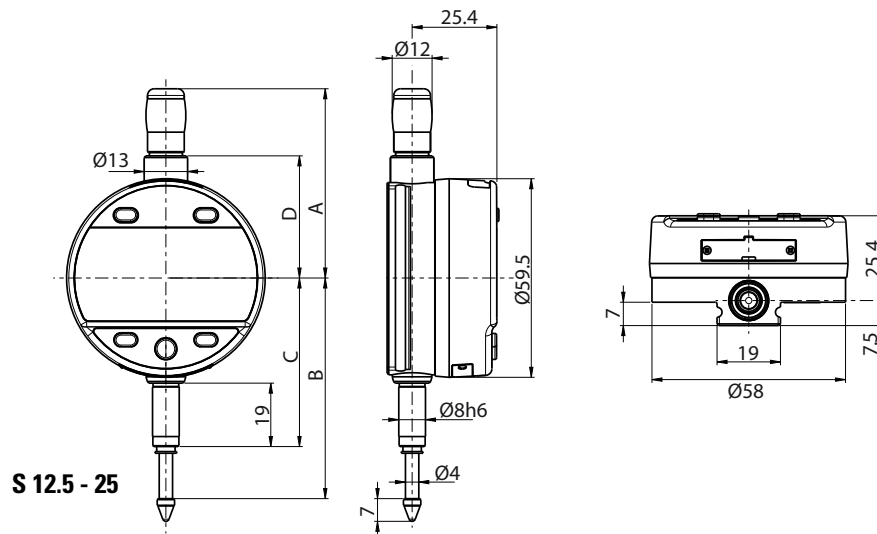
* SIS description on page 5

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. Error fe	µm	1.8	2.2
Repeatability	µm	0.5	
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	

*** Up to 8 instruments connected per dongle #981.7100**
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

STANDARD DELIVERY

MEASURING FORCE

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

		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

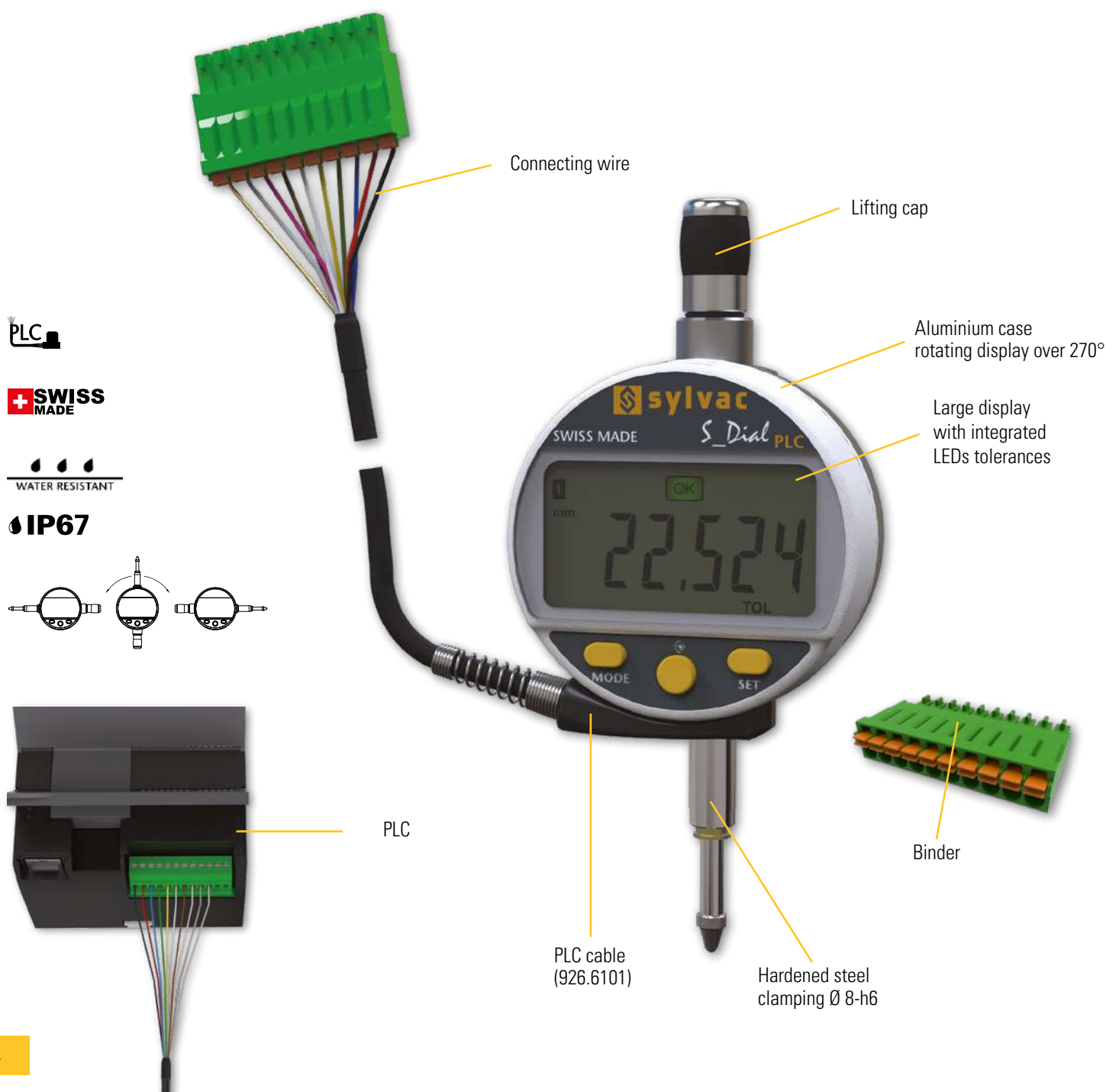
Digital indicators

S_Dial WORK

DESCRIPTION

PLC

- **Indicator with PLC connector**
- Resolution up to 0.001mm
- Robust construction
- Water and coolant resistant
- New technology with configurable menus
- **Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, etc.)**
- Delivered with cable length 5m and 10 poles FMC connector
- Compatible with the following protocols : MODBUS / ASCII / ORBIT

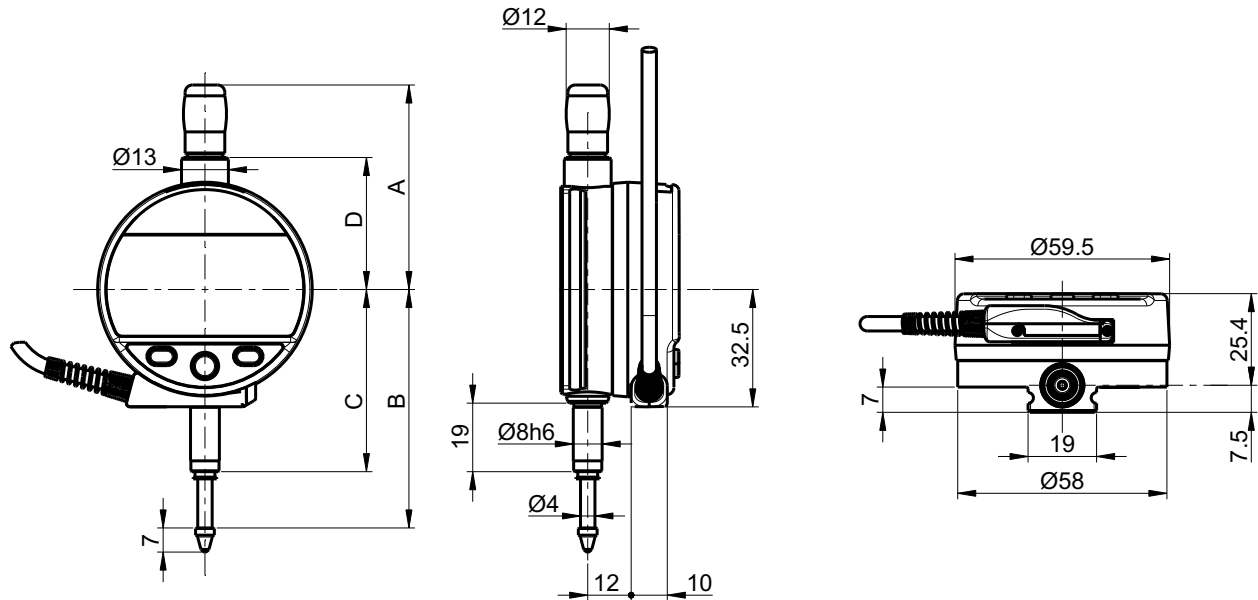


Digital indicators

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. Error fe	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 + binder included
- Manual
- Calibration certificate

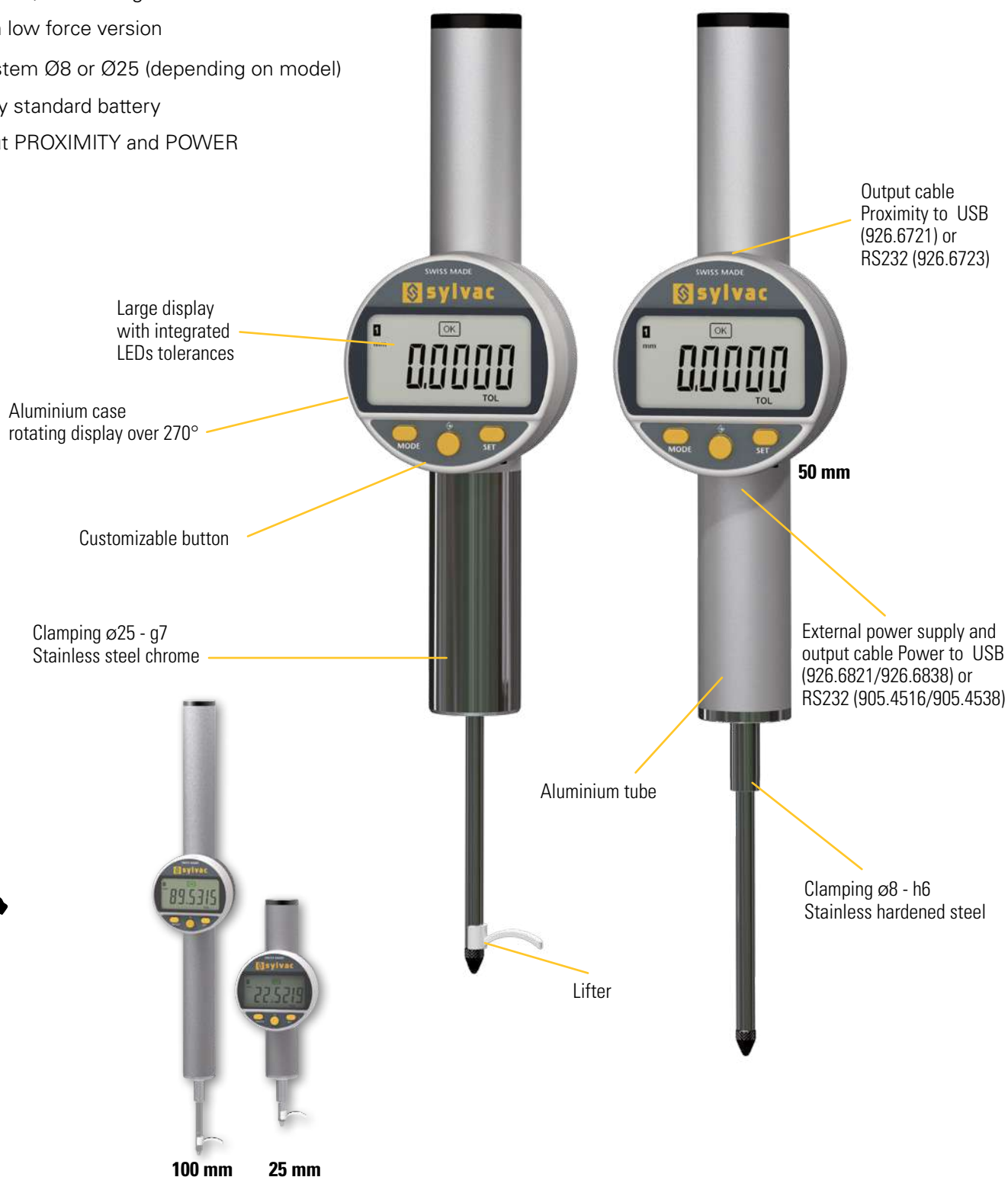
Digital indicators

S_Dial PRO

DESCRIPTION

BASIC

- High accuracy indicators allowing to measure on long range without calibration
- Broad choice of functions (MIN/MAX/DELTA, TOL, Factor, PRESET, AUTO OFF, etc)
- Resolution 0.1 μm
- **Max. admissible error 1.5 $\mu\text{m}/50\text{mm}$**
- Corrected measuring system with reference on the scale
- Mixed ceramic/ball bearings
- Available in low force version
- Clamping stem $\varnothing 8$ or $\varnothing 25$ (depending on model)
- Powered by standard battery
- Data output PROXIMITY and POWER



PROXIMITY

POWER

SWISS
MADE

WATER RESISTANT

Digital indicators

S_Dial

APPLICATIONS

B



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

B



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

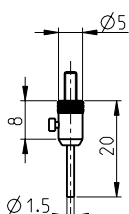
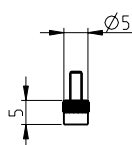
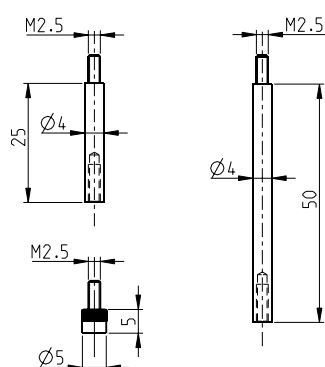
Digital indicators

S_Dial

ACCESSORIES

B

Contact points M2.5



S_Dial Mini

S234 (905.4321)

S234 (905.4322)

S_Dial WORK
12,5 - 25 mm

S_Dial WORK
50 - 150 mm

S_Dial PRO Basic

905.2201

905.2202

905.2203

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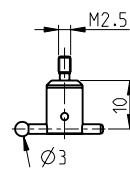
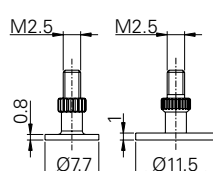
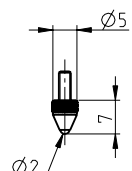
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905.2206

905.2204

905.2205

905.2207

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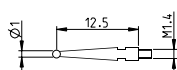
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905.2240

Short probe, TC ball

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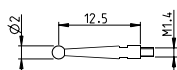
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905.2241

Short standard probe, TC ball

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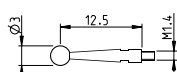
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905.2242

Short probe, TC ball

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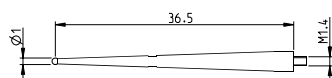
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905.2243

Long probe, TC ball

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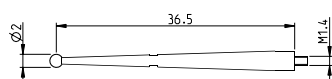
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905.2244

Long standard probe, TC ball

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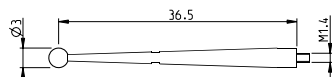
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905.2245

Long probe, TC ball

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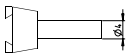
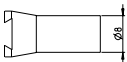

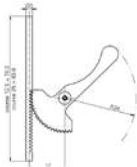
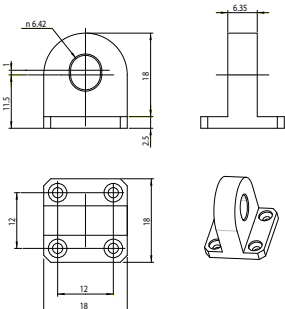
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ACCESSORIES

B

		S_Dial Mini	S234	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			● ¹⁾ ● ¹⁾
	905.2231	Sleeve Ø8 --> 10mm with locking screw	●	●	● ●
	905.4212	Screwdriver for S_Dial Mini & S234	●	●	

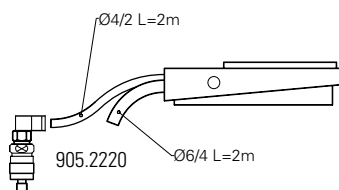
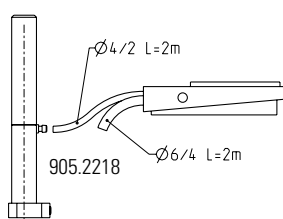
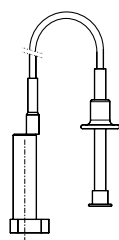
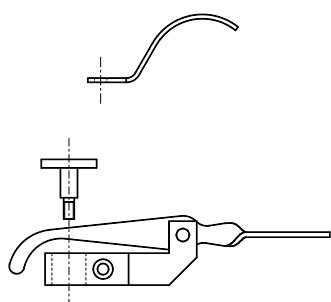
¹⁾ Except S_Dial WORK Basic

Digital indicators

S_Dial

ACCESSORIES

B



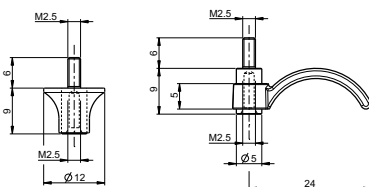
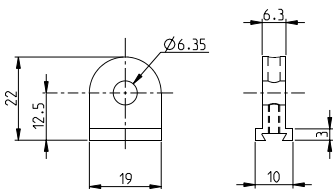
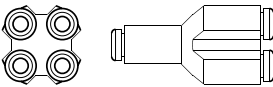
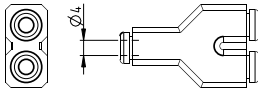
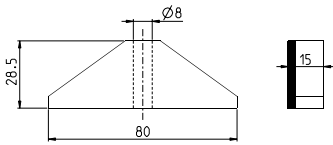
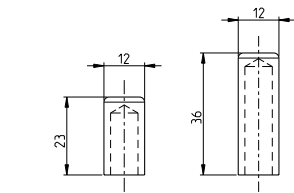
		S_Dial Mini	S234	S_Dial WORK 12,5 - 25 mm	S_Dial WORK 50 - 150 mm	S_Dial PRO Basic
905.2214	Lifting device	•		•	•	•
905.2215	Upper lifting device			•		
905.2216	Lifting device with photo-cable			•		
905.2218	Pneumatic lifting device with foot pedal			•		
905.2217	Lifter only for 905.2218			•		
905.2219	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				•	

Digital indicators

S_Dial

ACCESSORIES

B



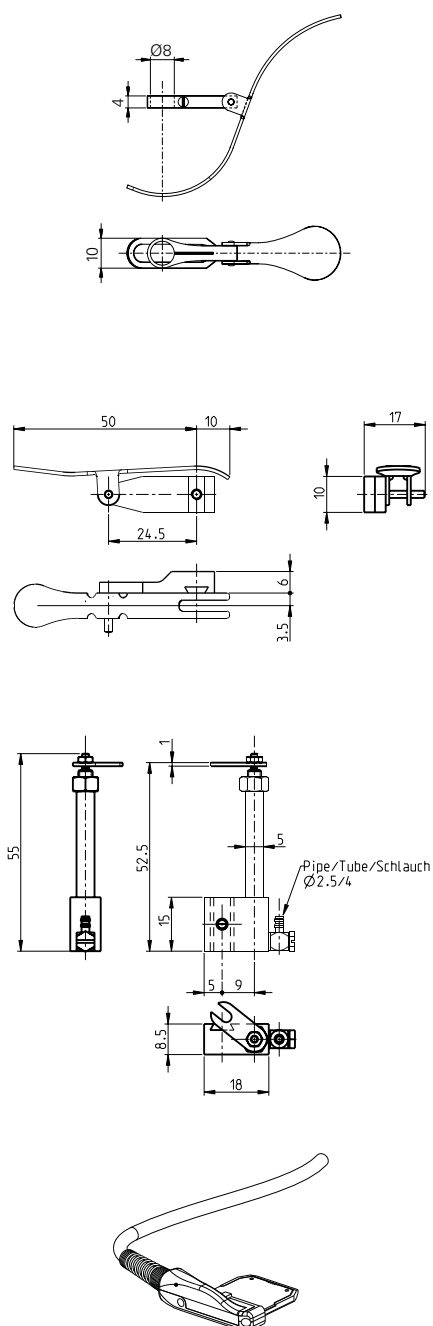
		S_Dial Mini	S234	S_Dial WORK 12,5 - 25 mm	S_Dial WORK 50 - 150 mm	S_Dial PRO Basic
905.2221	Dust protection for indicator, range 12.5 mm			•		
905.2222	Dust protection for indicator, range 25 mm			•		
905.2223	Depth measuring base			•	•	
905.2261	Snap connector for pneumatic lifter x2	•		•	•	
905.2262	Snap connector for pneumatic lifter x4	•		•	•	
905.4211	Center lug back	•	•			
905.2224	Plastic lifting lever (bottom)	•		•	•	•
905.2225	Plastic lifting ring (bottom)	•		•	•	•

Digital indicators

S_Dial

ACCESSORIES

B



		S_Dial Mini	S234	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, except vertical type	●				
905.4217	Pneumatic lifting device for standard type	●				
926.6101	Replacement cable for digital indicator PLC					●

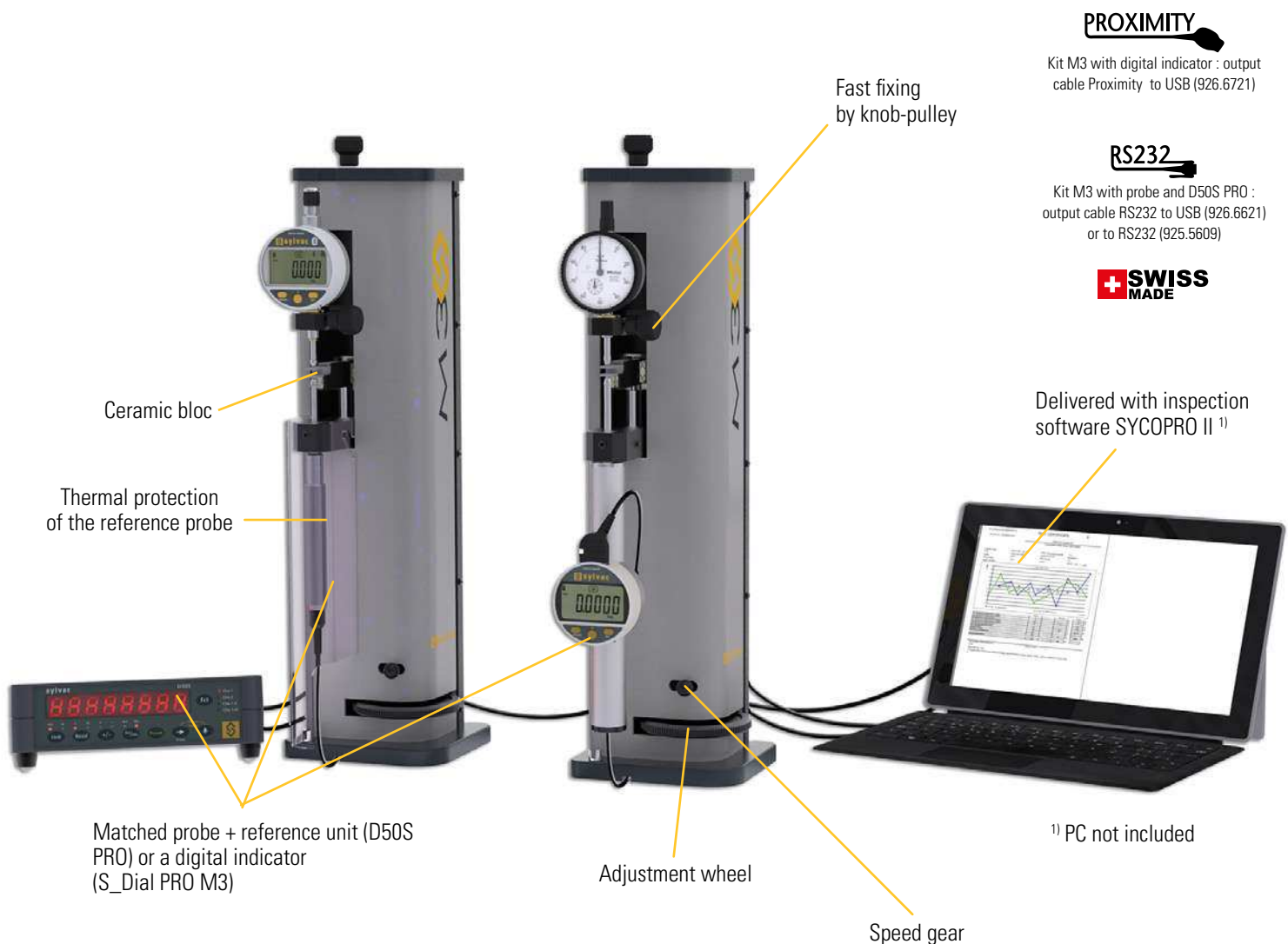
¹⁾ used on range 20 mm max

Digital indicator testing stand M3

DESCRIPTION

- Control thanks to a probe 10mm, 25mm or a digital indicator 25mm, 50mm
- Suitable for testing dial gauges plunger type and test indicators
- Allows the use of 2 calibrated measuring probes (like P25 and P25)
(P10 calibrated on channel 1 and P50 calibrated on channel 2) (version D50S PRO)
- Testing system according to ABBE principle
- Can be used in vertical and horizontal position
- Ceramic gauges blocs
- Direct status from the instrument during checking
- Integrated standards
- Creation of personalized certificates of inspection
- Fast and slow approach speeds
- Visualization at any time of the control status
- Control of digital instruments with direct connection

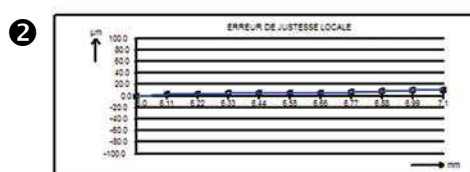
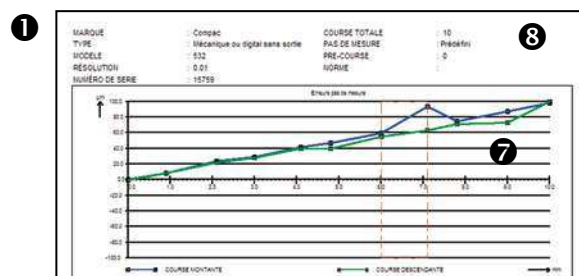
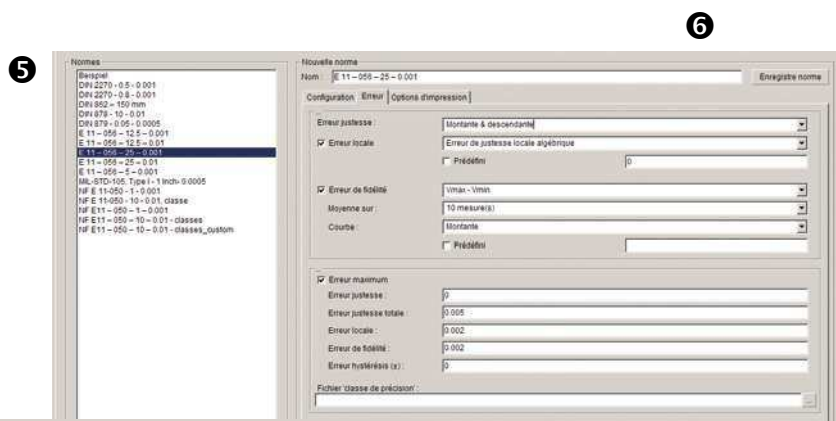
B




Digital indicator testing stand M3

DISPLAY/SOFTWARE

- 1 Display the curves of measurement
- 2 Check the error and repeatability
- 3 Creation and management of instrument groups
- 4 Fast access to all of stored instruments
- 5 Integrated standards
- 6 Personalisation of the standards
- 7 Display the measured values
- 8 Possibility to customize the certificate



TECHNICAL SPECIFICATIONS

		Kit with probe and D50S PRO		Kit with digital indicator	
		809.1303	809.1301	809.1305	809.1304
Measuring range	mm	M3 Kit probe 10 mm	M3 Kit probe 25 mm	M3 Kit S_Dial PRO M3 25 mm	M3 Kit S_Dial PRO M3 50 mm
Max. Error	µm	0.6	0.8	1.0	1.2

Digital indicator testing stand M3

STANDARD DELIVERY

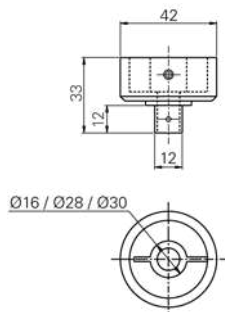
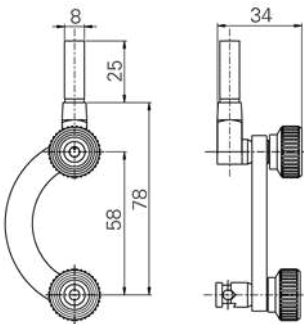
Kit with probe and D50S PRO

- Stand M3 (909.1300)
- Ceramic bloc gauges
- Thermal protection of the probe reference
- D50S PRO + probe calibrated
- Cable RS232C (925.5609)
- Charging unit according to country (904.4200/01/03/04/05)
- External contact (foot-pedal 904.4101)
- CD- with inspection software SYCOPRO II (981.7124)
- Accessory for lever indicators (909.2010)
- Instruction manual

Kit with digital indicator

- Stand M3 (909.1300)
- Ceramic bloc gauges
- S_Dial PRO M3 with special measuring force
- Cable Proximity USB (926.6721)
- External contact (foot-pedal 926.7020)
- CD- with inspection software SYCOPRO II (981.7124)
- Accessory for lever indicators (909.2010)
- Instruction manual

ACCESSORIES



909.2010

Clamping device for test indicator

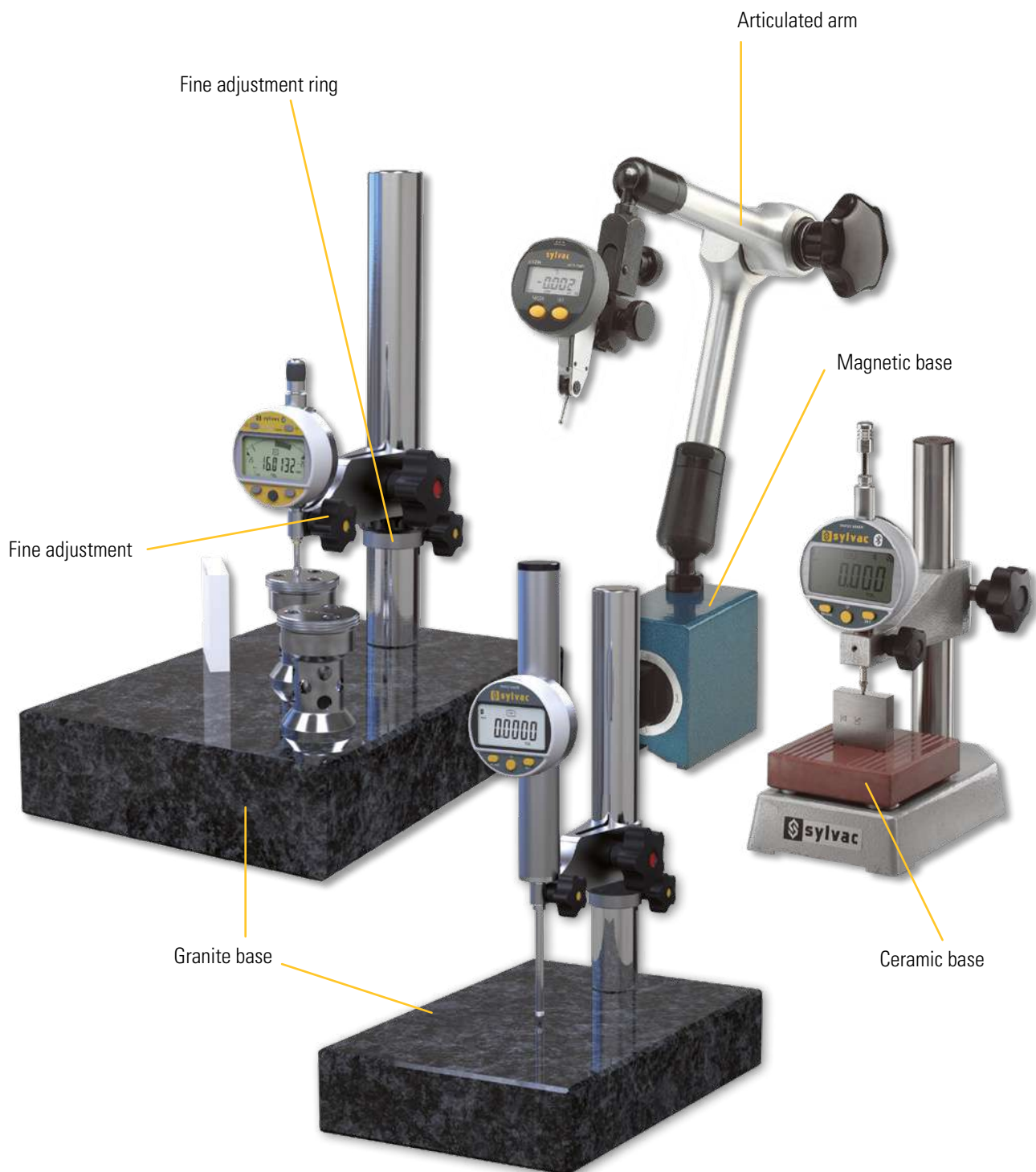
909.2011

Clamping device for dial gauges Ø 16 / 28 / 30 mm

Measuring stands

DESCRIPTION

- A selection of universal measuring stands for fixing all probes, test indicators and dial gauges
- Clamping on Ø 8 mm, Ø 25mm or dovetail on magnetic stand



Measuring stands

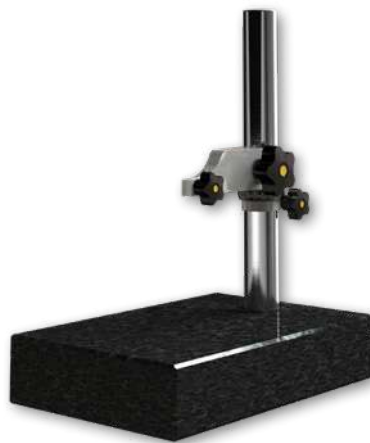
TECHNICAL SPECIFICATIONS



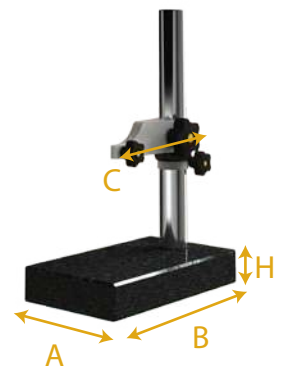
908.1201



908.1209



808.1204



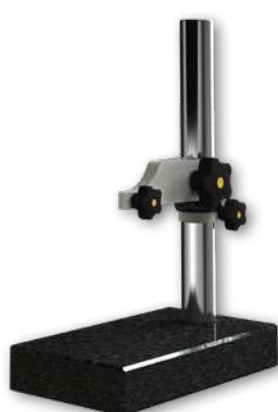
		908.1201	908.1209	808.1204	808.1205
Base		magnetic ¹⁾	Cast iron ceramic table	granit grade 00	granit grade 00
Base dimensions AxBxH	mm	70x46x65	85x85x25	300x210x60	300x210x60
Central locking		•	---	---	---
Column	mm	---	Steel Ø 25	Steel Ø 35	Steel Ø 35
Clamping dimension	mm	Ø 8	Ø 8	Ø 8	Ø 25
Dist. Column.-meas. point. C	mm	---	78	115	115
Measuring range	mm	---	0 - 115	0 - 260	0 - 260
Total height	mm	430	215	360	360
Weight	kg	2.2	4.3	13.4	13.5
Fine adjustment		---	---	•	•

¹⁾ Gripping coefficient : 600N

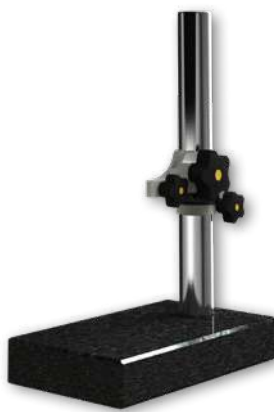
Measuring stands

TECHNICAL SPECIFICATIONS

- Superior Swiss Made supports with reinforced column and precision measuring arm ensuring optimal parallelism and rigidity reducing the measurement error due to the carrier. These measuring stands are equipped with a ring allowing fine height adjustment and a 00 grade granite base.



808.1206

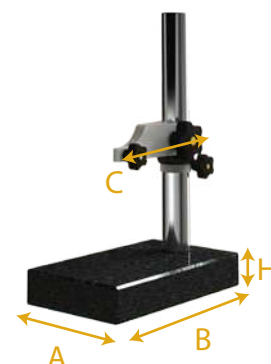


808.1203



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	150X100X40	150X100X40	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

In 1981, Sylvac launched the first caliper with digital read-out on the market. Quickly, other models followed and the market of these handtools took an incredible rise.

Today, Sylvac remains a leader in this market and offers a range of calipers with digital read-out of a measurement capacity from 150 to 3000 mm.

Sylvac inductive measuring system (patented)

Data output

Power supply: Lithium battery 3V, Type CR 2032

Operational temperature: +5 to +40°C

mm/inch selection



Caliper

S_Cal EVO

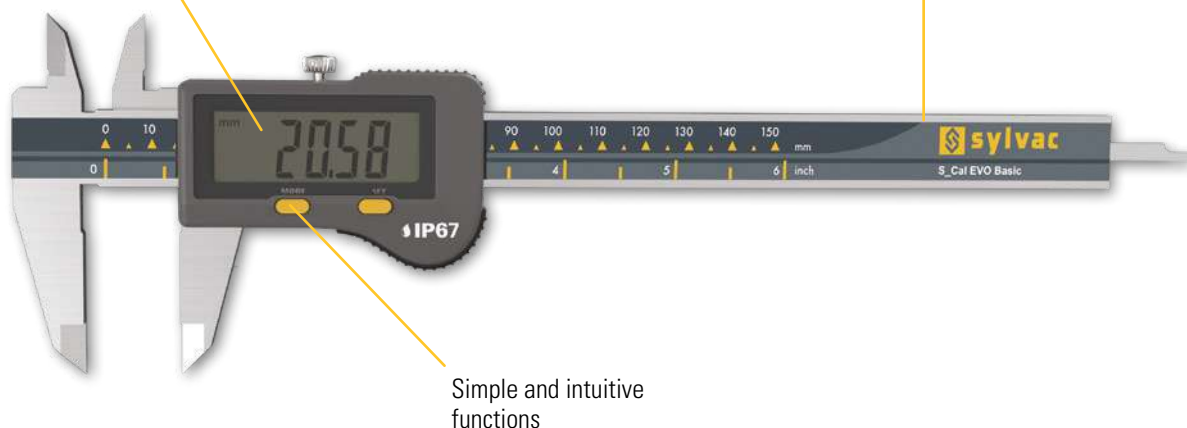
DESCRIPTION

BASIC

- **Standard professional caliper with protection IP67**
- New extra-large display
- Without output data
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded
- Great comfort of use thanks to its ergonomic frame
- Thumb wheel on request (see accessories)

Digital display LCD,
Height of digits 11.5 mm

Thickness of frame 3.5 mm



Simple and intuitive
functions

NO OUTPUT

SIS | Smart
Inductive
System

WATER RESISTANT

IP67

Protection rating IP67 !

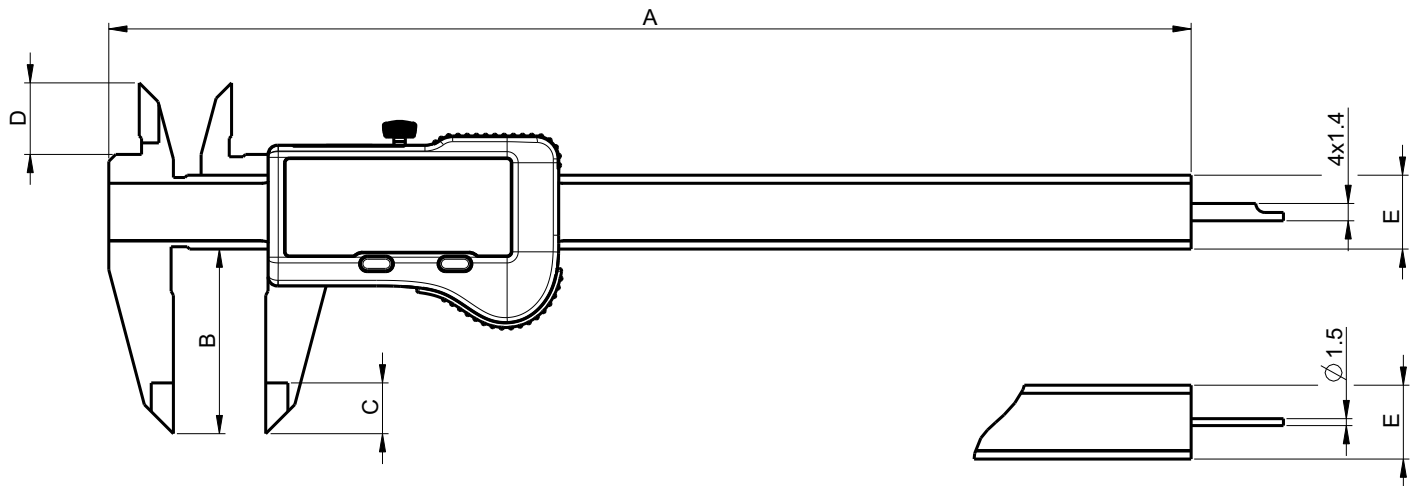
* SIS | Smart Inductive System description on page 5

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 G	µm	20 ¹⁾	20 ¹⁾	30	30
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⁾ > 100 mm : 30 µm / DIN 862

Caliper

S_Cal EVO

DESCRIPTION

PROXIMITY

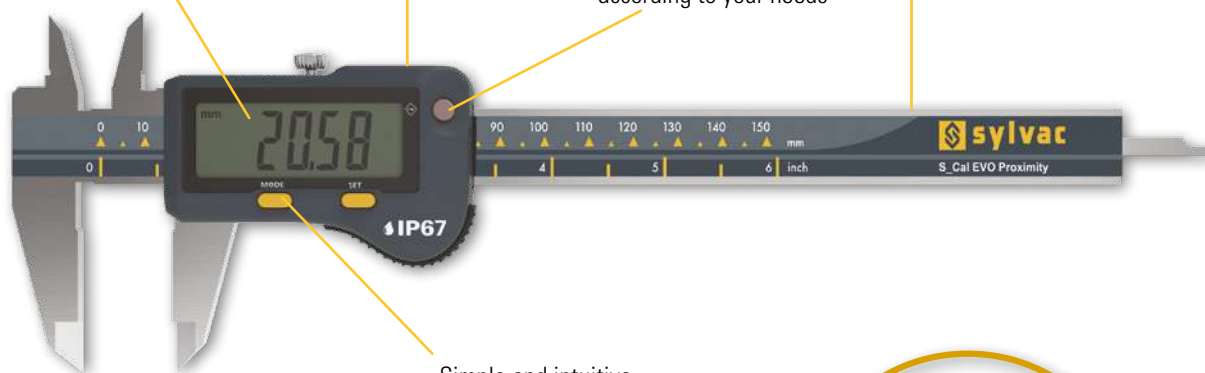
- Standard professional caliper with protection IP67
- **Proximity data output**
 - New extra-large display
 - Programmable button with a function of choice
 - Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
 - Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
 - Position memorized in sleeping mode, **Absolute System S.I.S***
 - Maximum speed of displacement : 2.5 m/sec
 - Mechanical frame in stainless steel, hardened and grinded
 - Great comfort of use thanks to its ergonomic frame
 - Thumb wheel on request (see accessories)

Digital display LCD,
Height of digits 11.5 mm

Output cable Proximity to
USB (926.6721) or RS232
(926.6723)

Thickness of frame 3.5 mm

Programmable button
according to your needs



Simple and intuitive
functions



Proximity cable

PROXIMITY

SIS | Smart
Inductive
System

WATER RESISTANT

IP67

Proximity version

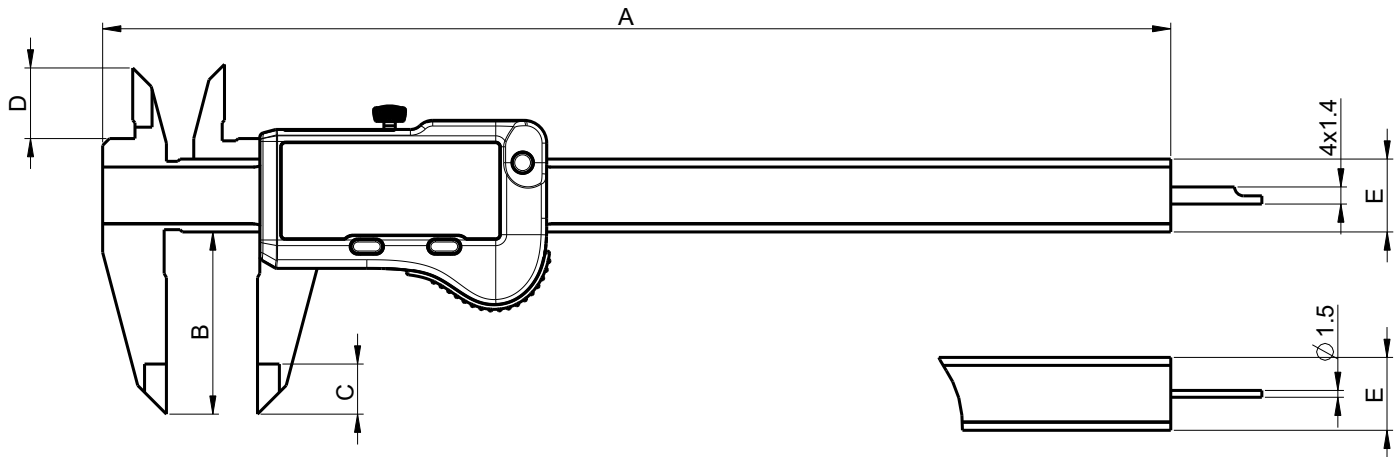
* SIS | Smart Inductive System description on page 5

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 G	µm	20 ¹⁾	20 ¹⁾	30	30
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 ²⁾			
Smart Inductive Sensor		●			

¹⁾ > 100 mm : 30 µm / DIN 862

²⁾ see cables chapter

Caliper

S_Cal EVO μ m

DESCRIPTION

PROXIMITY MICRON

- Standard professional caliper with protection IP67
- **Proximity data output**
- **New extra-large micron display**
- Programmable button with a function of choice
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded
- Great comfort of use thanks to its ergonomic frame
- Thumb wheel on request (see accessories)

Digital display LCD,
Height of digits 11.5 mm

Output cable Proximity to
USB (926.6721) or RS232
(926.6723)

Thickness of frame 3.5 mm

Programmable button
according to your needs

Simple and intuitive
functions

PROXIMITY

SIS | Smart
Inductive
System

WATER RESISTANT

IP67



Proximity cable

Version Proximity micron

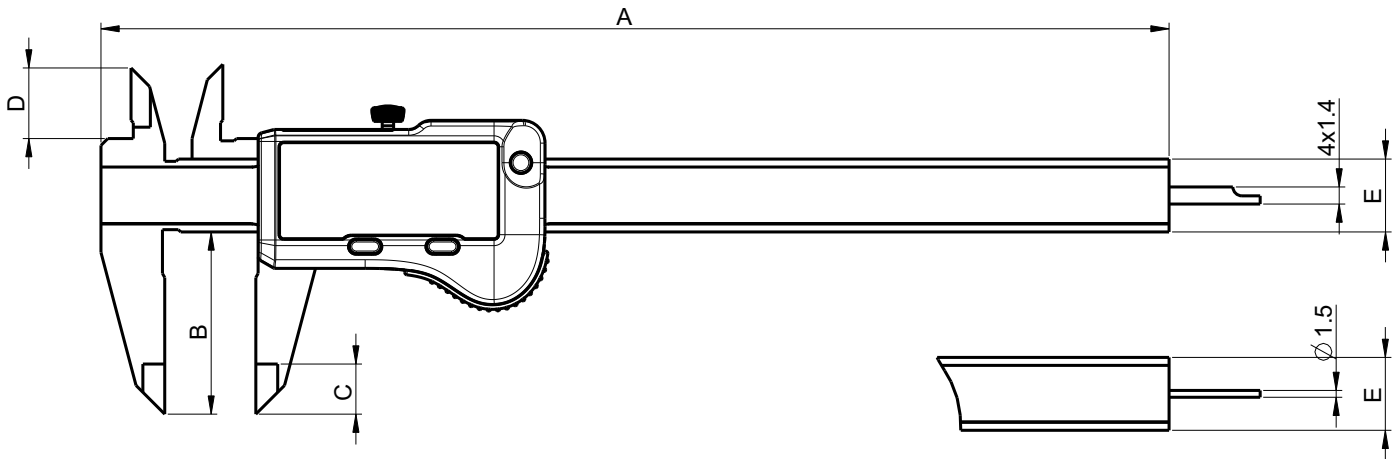
* SIS | Smart Inductive System description on page 5

Caliper

S_Cal EVO μ m

DIMENSIONAL DRAWING

PROXIMITY MICRON



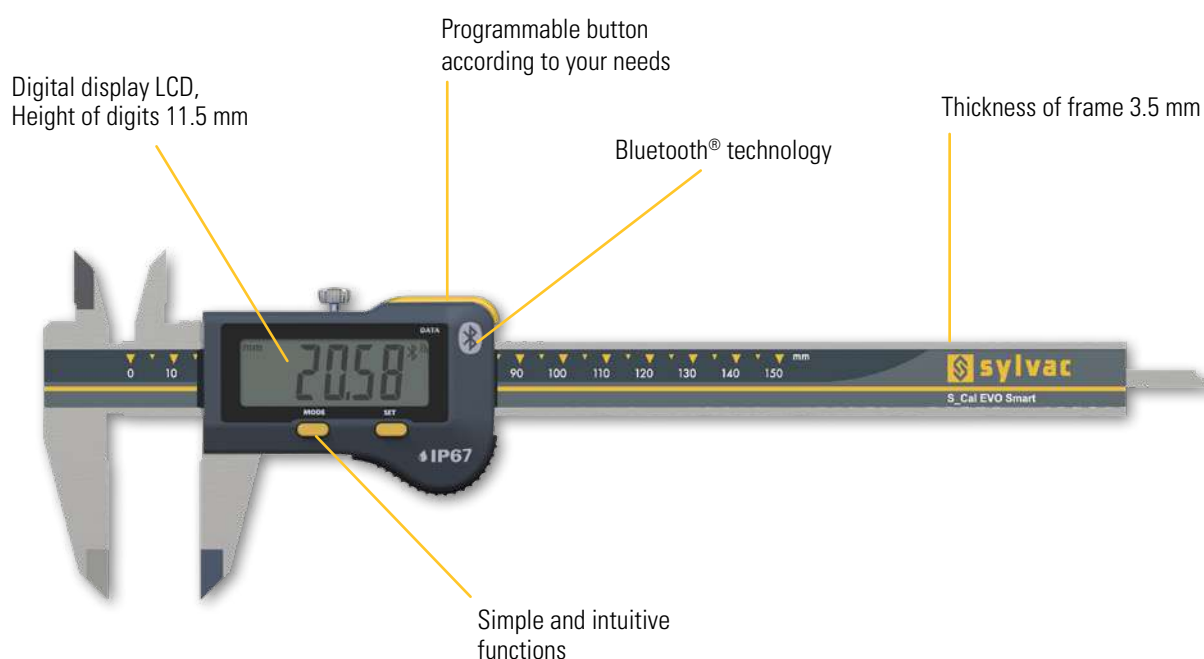
TECHNICAL SPECIFICATIONS

		810.9702	810.9707
Measuring range	mm	150	150
Max. Error G	μ m	15 ¹⁾	15 ¹⁾
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	\varnothing 1.5
Functions		Zero setting, Preset (max 99.999), mm/inch, Hold	
Protection rating according to IEC 60529		IP67	
Output data		USB / RS232 ²⁾	
Smart Inductive Sensor		●	

¹⁾ < 100 mm: 15 μ m / > 100 mm : 30 μ m / DIN 862

²⁾ see cables chapter

- **Integrated Bluetooth® wireless technology**
- New extra-large display
- Programmable button according to your needs
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529,
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded
- Great comfort of use thanks to its ergonomic frame
- Thumb wheel on request (see accessories)



Bluetooth® wireless technology and IP67 protection rating!

SIS Smart Inductive System



IP67

* SIS description on page 5

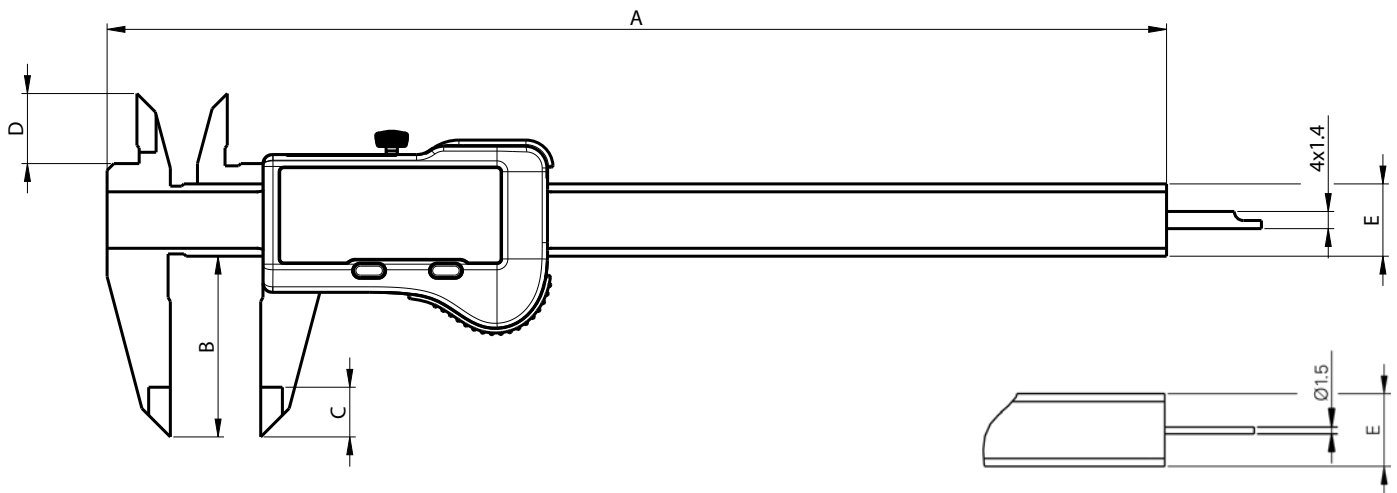


Caliper

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 G	µm	20 ¹⁾	20 ¹⁾	30	30
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⁾ > 100 mm : 30 µm / DIN 862

*** Up to 8 instruments connected per dongle #981.7100**
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

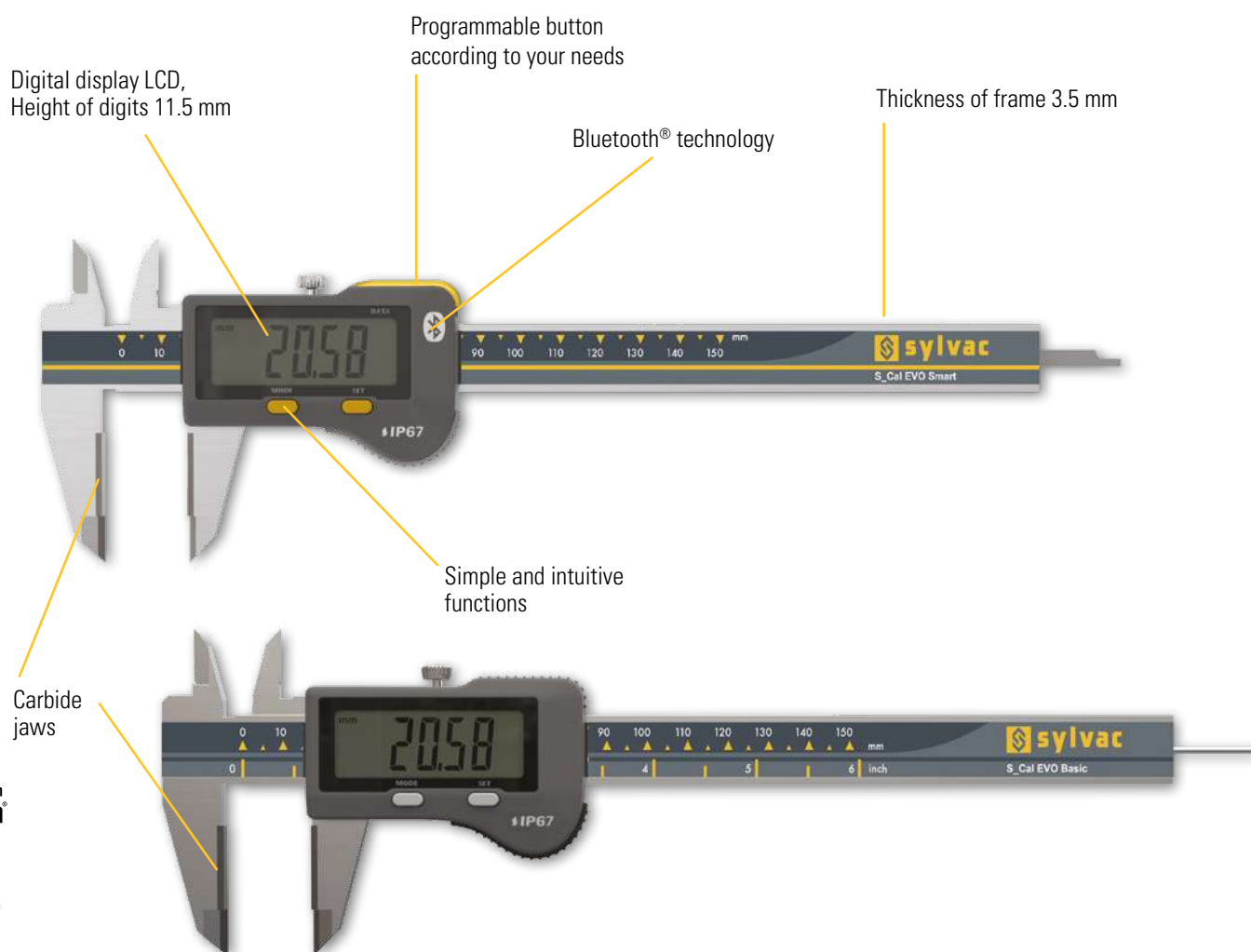
Caliper

S_Cal EVO

DESCRIPTION

CARBIDE

- Integrated **Bluetooth®** wireless technology (depends on model)
- **Carbide jaws (external jaws only)**
- New extra-large display
- Programmable button according to your needs (depends on model)
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded
- Great comfort of use thanks to its ergonomic frame
- Thumb wheel on request (see accessories)



SIS Smart Inductive System



IP67

* SIS description on page 5

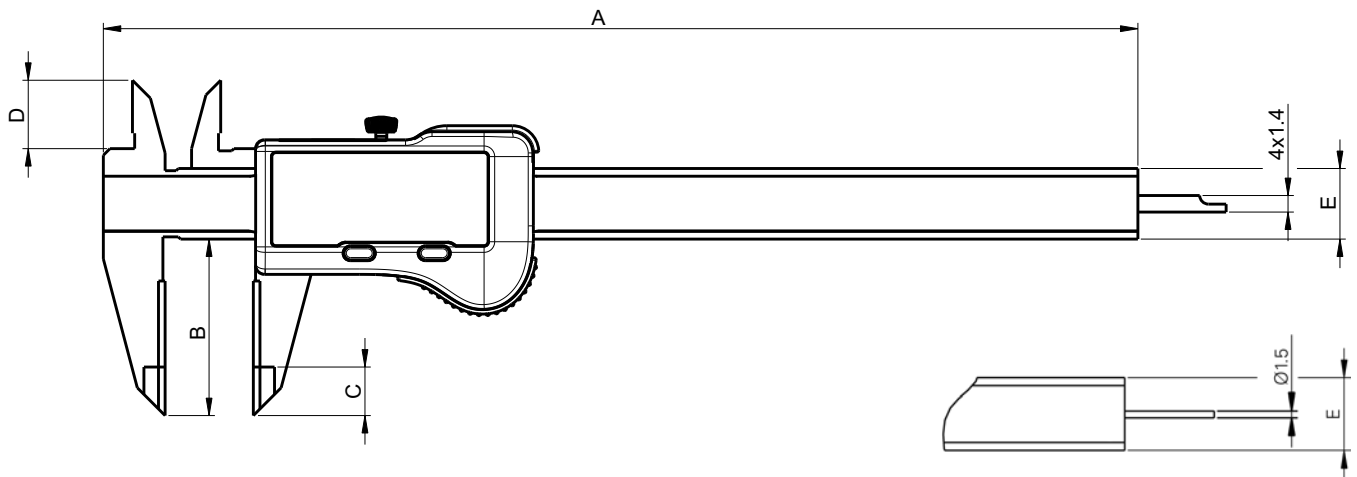
External carbide jaws

Caliper

S_Cal EVO

DIMENSIONAL DRAWING

CARBIDE



TECHNICAL SPECIFICATIONS

		810.1409	810.1509
Measuring range	mm	150	150
Max. Error G	µm	20 ¹⁾	20 ¹⁾
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	Ø 1.5	4 x 1.4
Protection rating according to IEC 60529		IP67	IP67
Output data		-	Bluetooth® wireless technology*
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data	
Smart Inductive Sensor		●	

¹⁾ > 100 mm : 30 µm / DIN 862

* see cables chapter

*** Up to 8 instruments connected per dongle #981.7100**
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

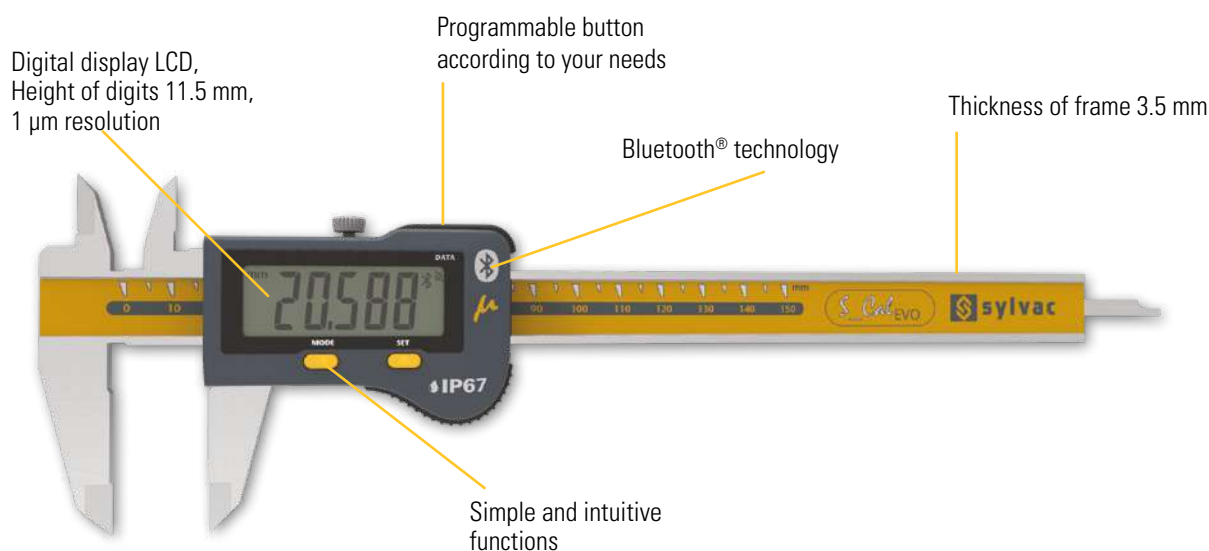
Micron Caliper

S_Cal EVO

DESCRIPTION

SMART MICRON

- **Integrated Bluetooth® wireless technology**
- New extra-large micron display
- Programmable button according to your needs
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529,
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded
- Great comfort of use thanks to its ergonomic frame
- Thumb wheel on request (see accessories)



SIS Smart Inductive System



IP67



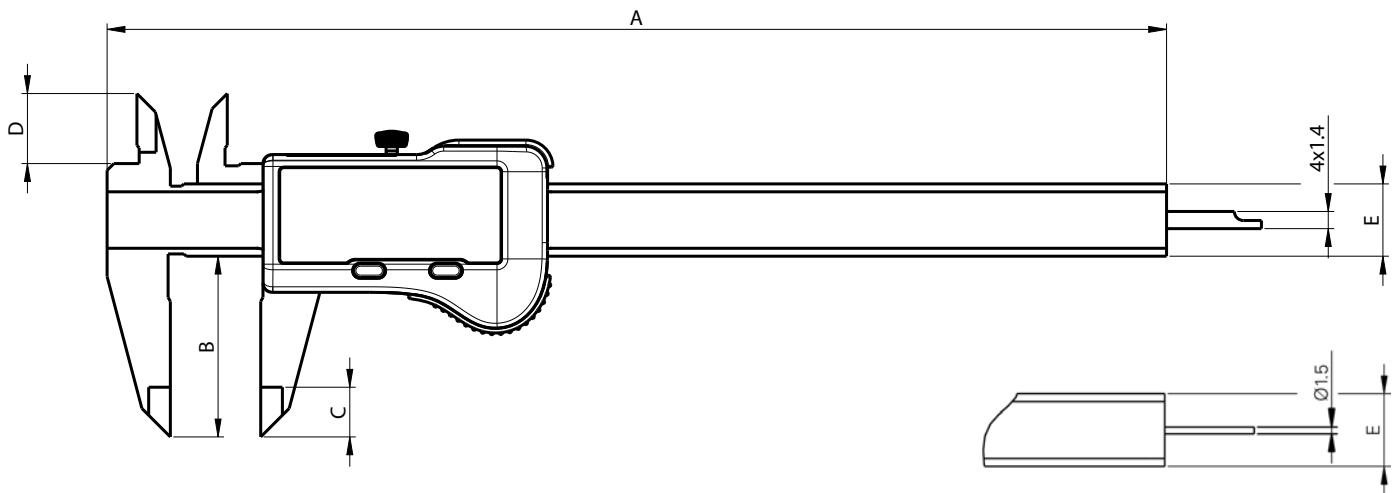
* SIS description on page 5

Micron Caliper

S_Cal EVO

DIMENSIONAL DRAWING

SMART MICRON



TECHNICAL SPECIFICATIONS

		810.9506	810.9516
Measuring range	mm	150	150
Max. Error G	µm	15 ¹⁾	15 ¹⁾
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	Ø 1.5
Protection rating according to IEC 60529		IP67	IP67
Output data		Bluetooth® wireless technology*	
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data	
Smart Inductive Sensor		●	

¹⁾ < 100 mm: 15 µm / > 100 mm : 30 µm / DIN 862

* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

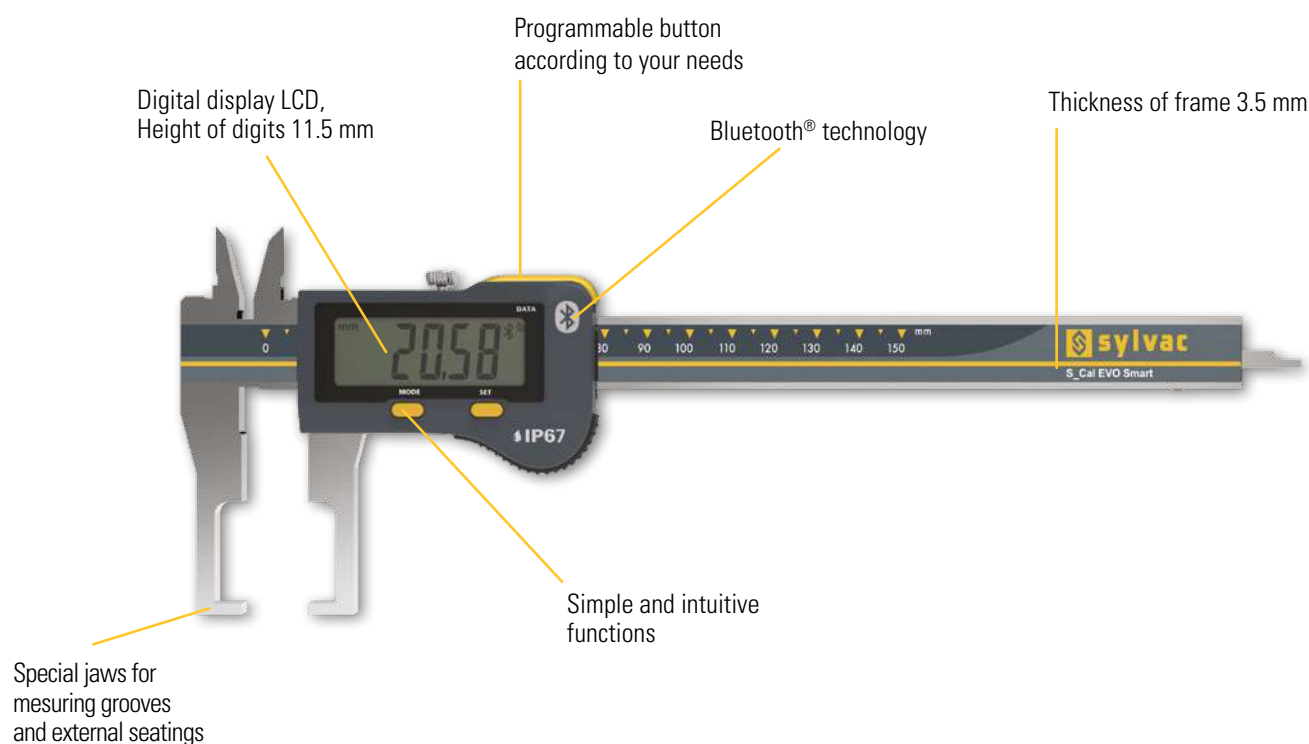
Special caliper

S_Cal EVO

DESCRIPTION

SMART EXTERNAL GROOVE

- **Integrated Bluetooth® wireless technology**
- Special jaws for measuring grooves and external seatings
- Programmable button according to your needs
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529,
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded
- Great comfort of use thanks to its ergonomic frame



SIS Smart Inductive System



IP67

* SIS description on page 5

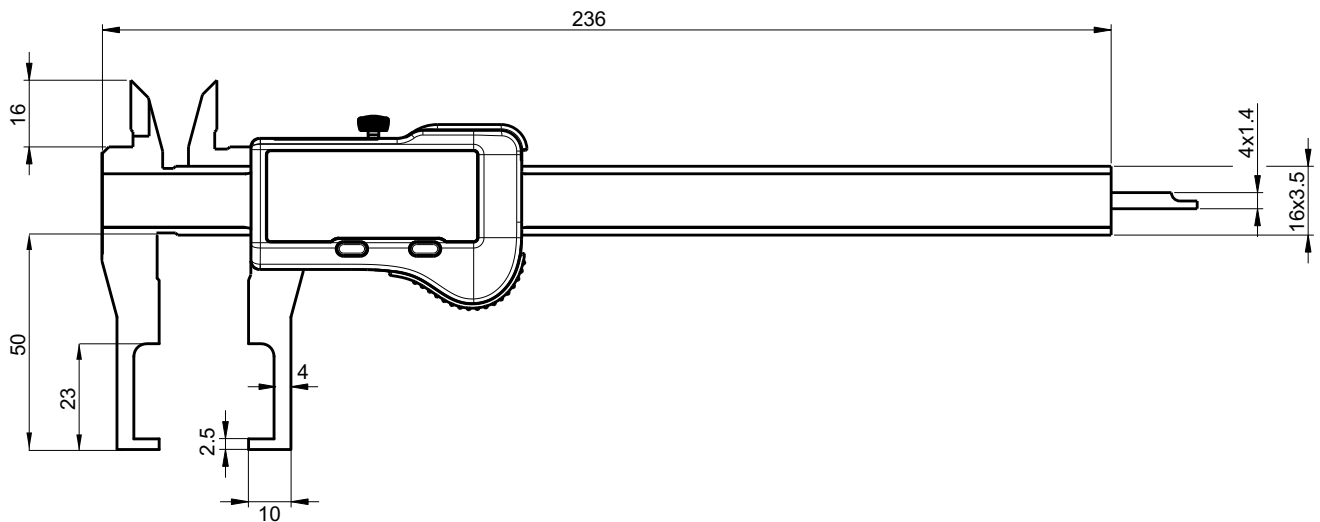
For measuring grooves and external seatings

Special caliper

S_Cal EVO

DIMENSIONAL DRAWING

SMART EXTERNAL GROOVE



TECHNICAL SPECIFICATIONS

		810.1602
Measuring range	mm	150
Max. Error G	µm	20 ¹⁾
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⁾ > 100 mm : 30 µm / DIN 862

*** Up to 8 instruments connected per dongle #981.7100**
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

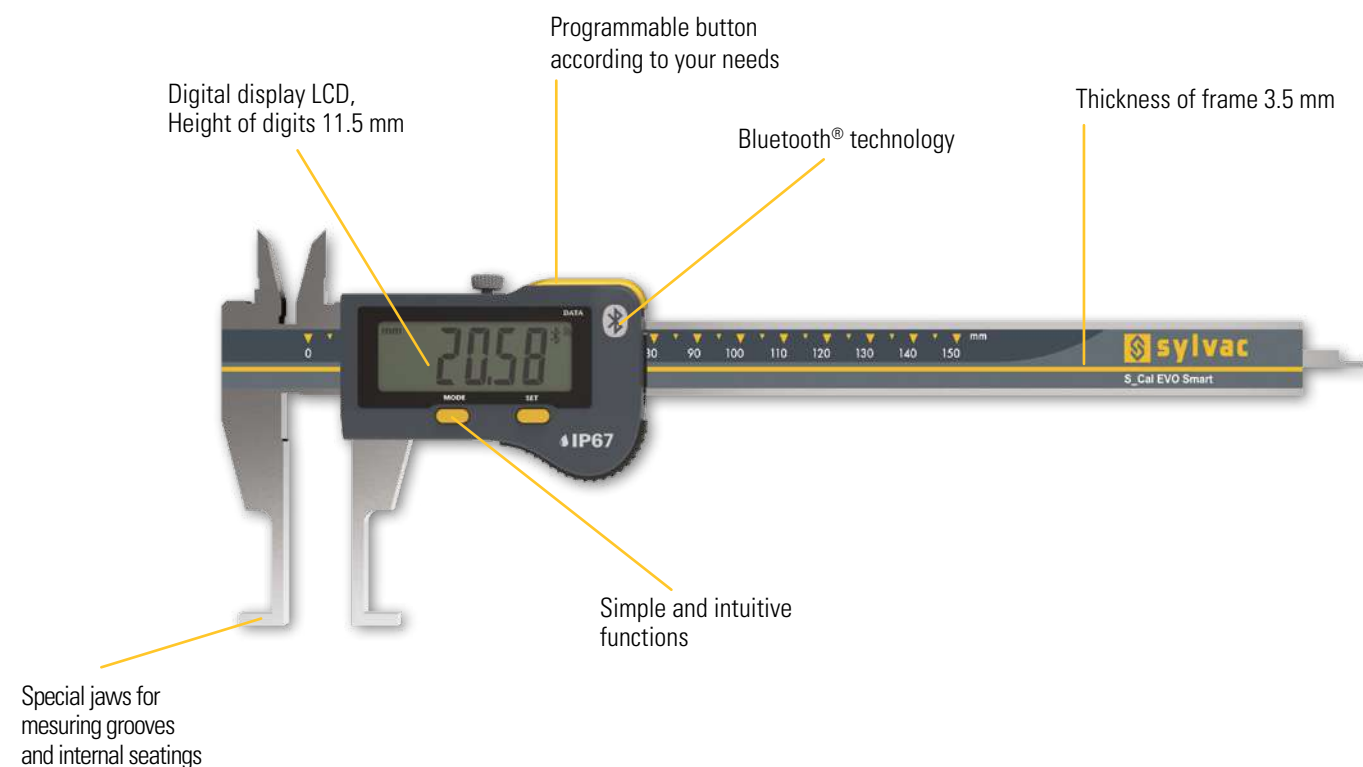
Special caliper

S_Cal EVO

DESCRIPTION

SMART INTERNAL GROOVE

- **Integrated Bluetooth® wireless technology**
- Special jaws for measuring grooves and internal seatings
- Programmable button according to your needs
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529,
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded
- Great comfort of use thanks to its ergonomic frame



SIS Smart Inductive System



IP67

* SIS description on page 5

For measuring grooves and internal seatings

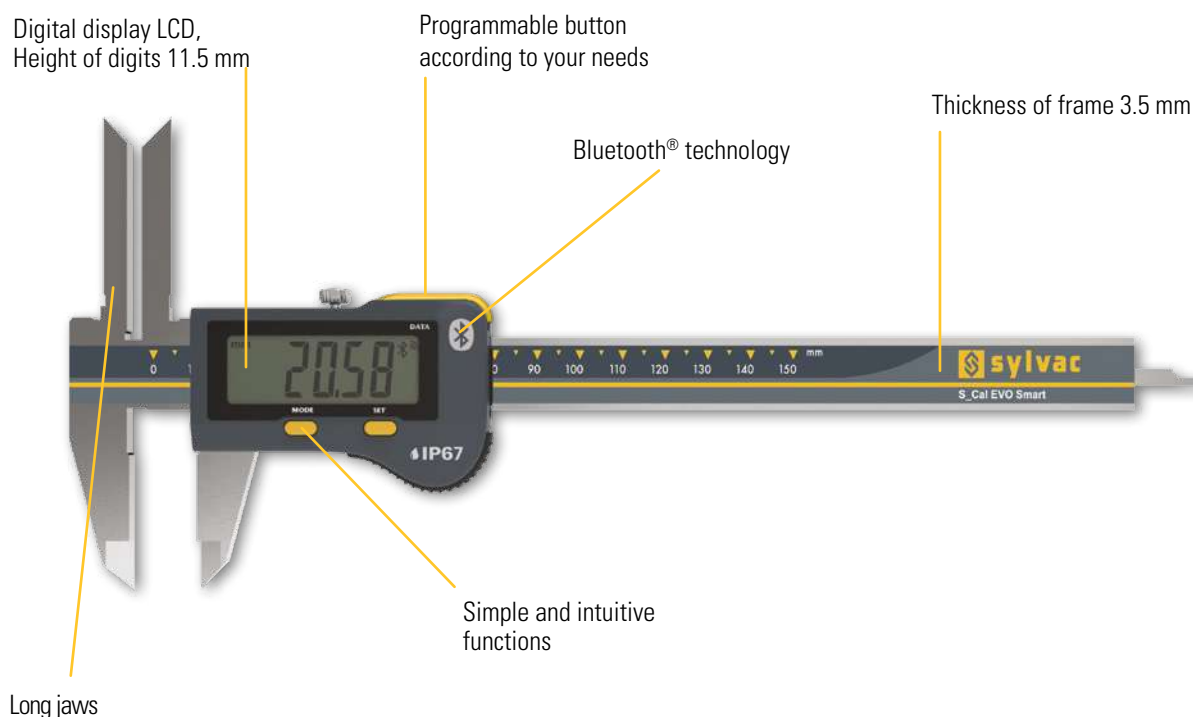
Special caliper

S_Cal EVO

DESCRIPTION

SMART DEEP MEASUREMENT

- **Integrated Bluetooth® wireless technology**
- Long internal jaws for deep measurements
- Programmable button according to your needs
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529,
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded
- Great comfort of use thanks to its ergonomic frame



SIS | Smart Inductive System



IP67

* SIS description on page 5

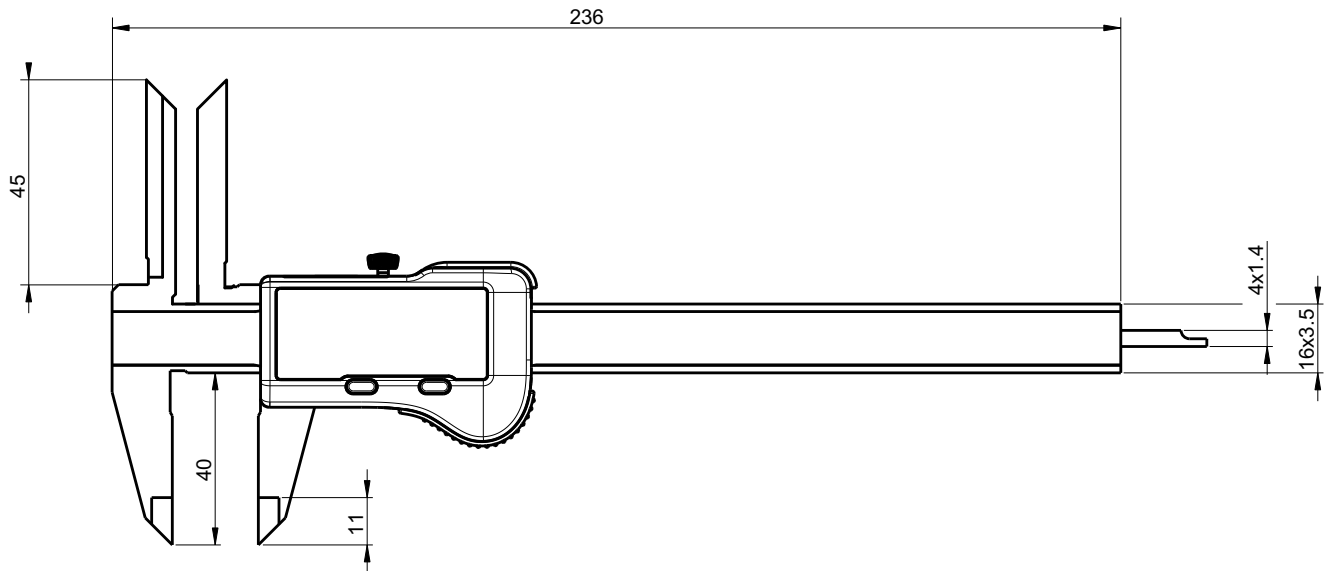
Long internal jaws for deep measurements

Special caliper

S_Cal EVO

DIMENSIONAL DRAWING

SMART DEEP MEASUREMENT



TECHNICAL SPECIFICATIONS

		810.1603
Measuring range	mm	150
Max. Error G	µm	20 ¹⁾
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⁾ > 100 mm : 30 µm / DIN 862

*** Up to 8 instruments connected per dongle #981.7100**
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

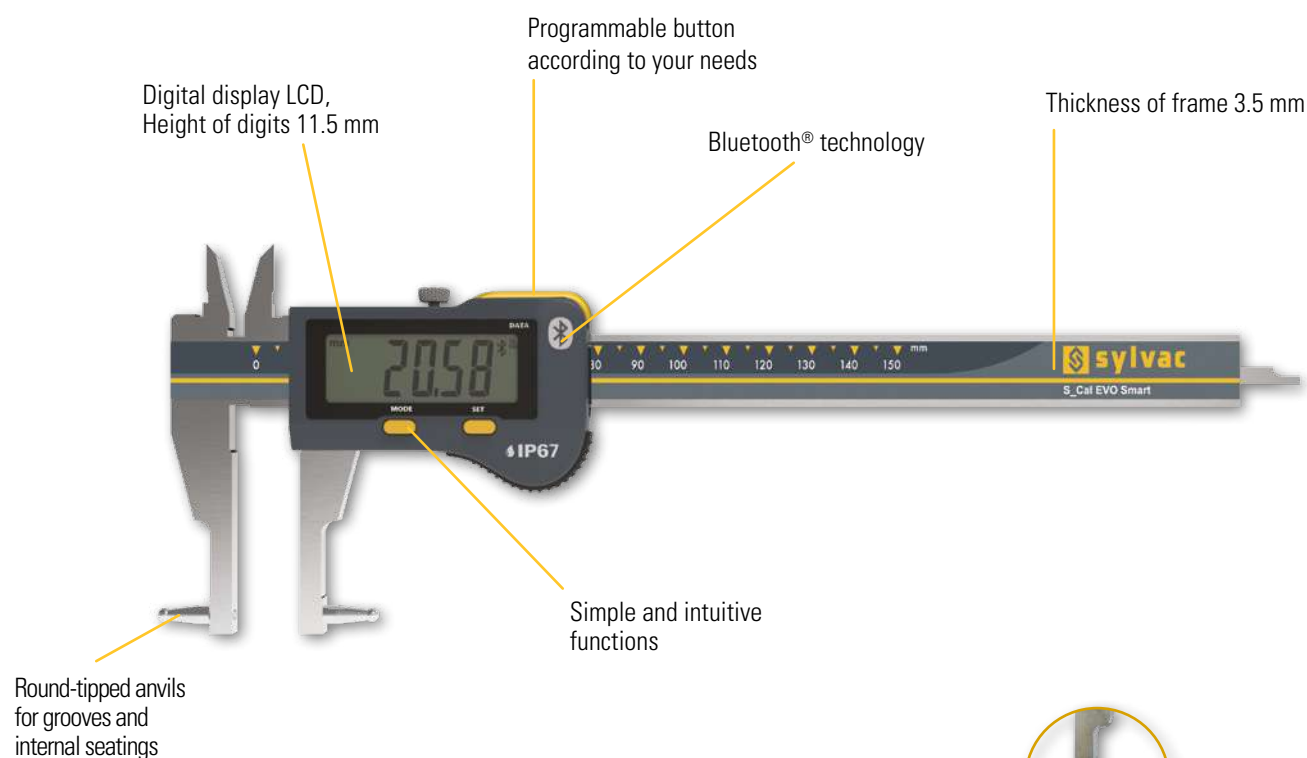
Special caliper

S_Cal EVO

DESCRIPTION

SMART POINTS JAWS

- **Integrated Bluetooth® wireless technology**
- Interchangeable round polished anvils for measuring internal grooves
- Programmable button according to your needs
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529,
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded
- Great comfort of use thanks to its ergonomic frame



SIS | Smart Inductive System



IP67

* **SIS** | Smart Inductive System description on page 5

Interchangeable anvils

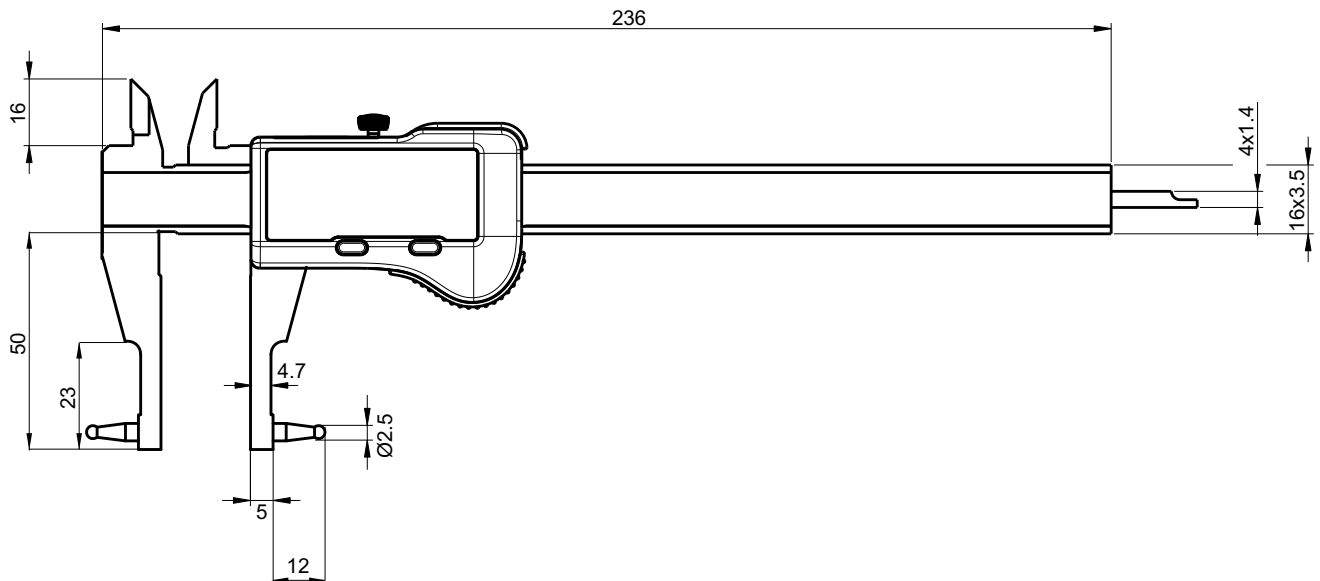
Special caliper

S_Cal EVO

DIMENSIONAL DRAWING

SMART POINTS JAWS

C



TECHNICAL SPECIFICATIONS

		810.1601
Measuring range	mm	150
Max. Error G	µm	20 ¹⁾
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⁾ > 100 mm : 30 µm / DIN 862

*** Up to 8 instruments connected per dongle #981.7100**
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT



Partkey to screw/unscrew
the anvils

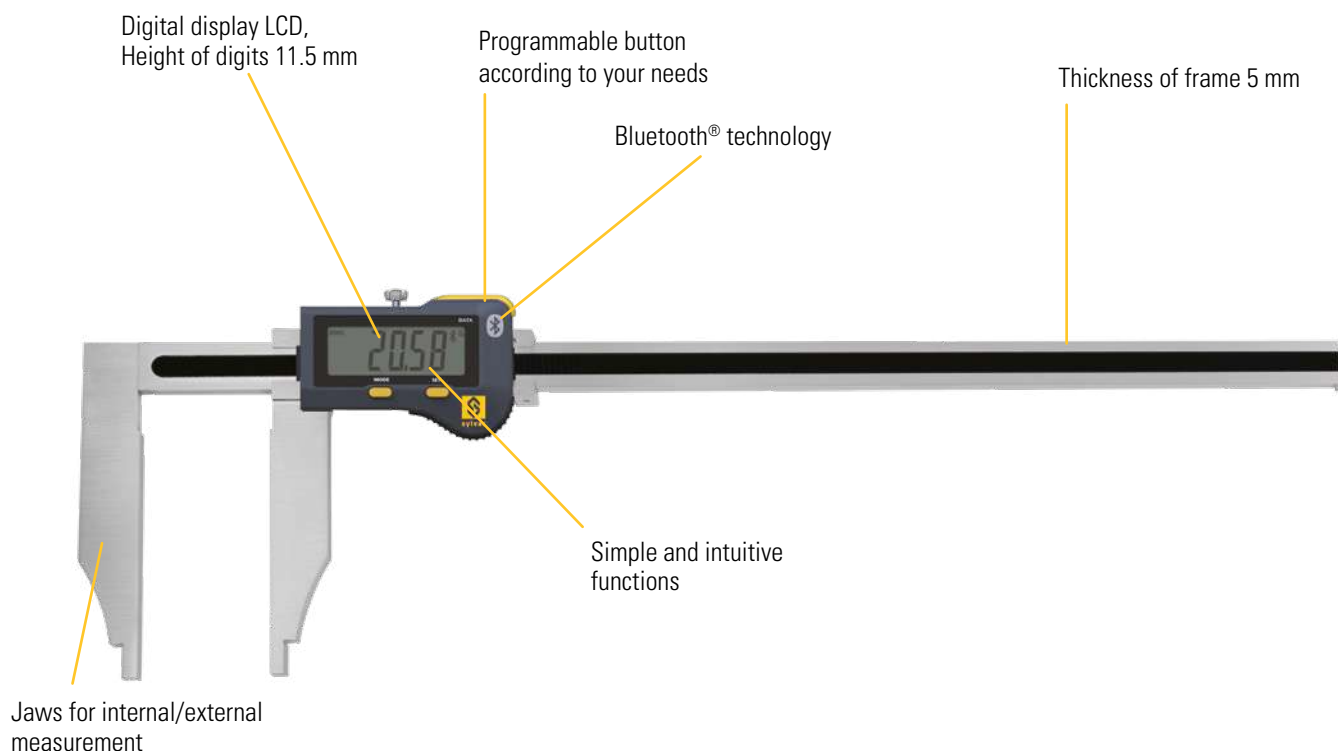
Caliper mid size

S_Cal EVO Form E

DESCRIPTION

MID SIZE CALIPER R5

- **Integrated Bluetooth® wireless technology**
- Mid size caliper r5 for internal/external measurement
- Programmable button according to your needs
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529,
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded
- Great comfort of use thanks to its ergonomic frame



Mid size caliper



IP67

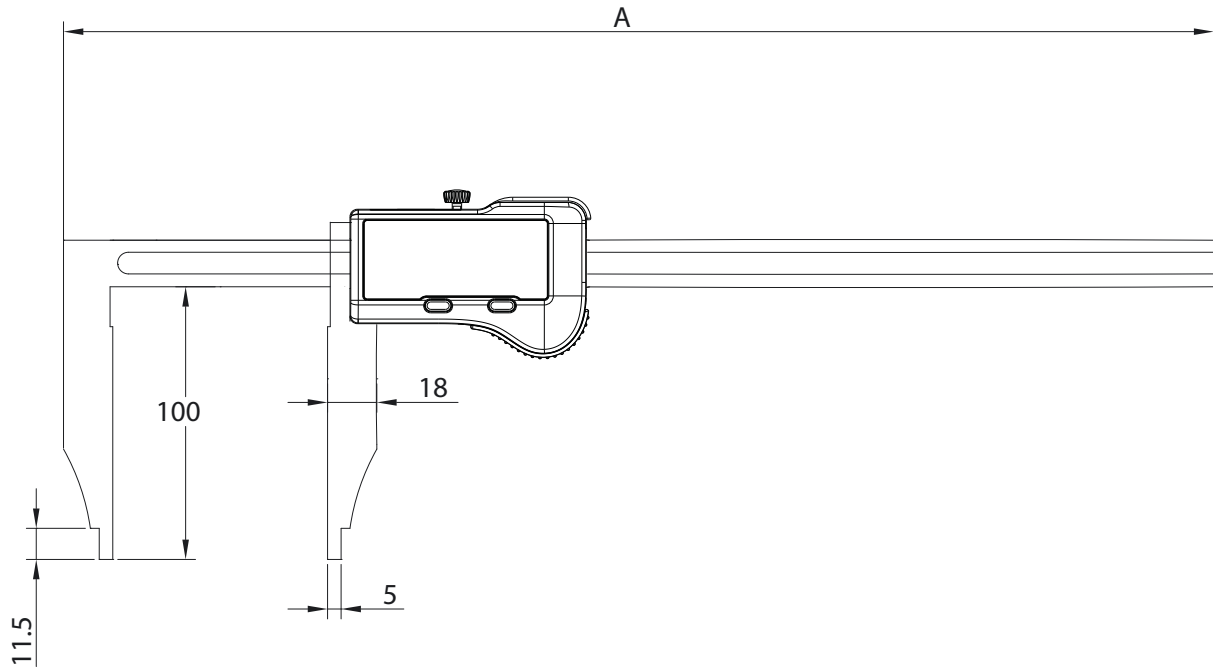
* SIS description on page 5

Caliper mid size

S_Cal EVO Form E

DIMENSIONAL DRAWING

MID SIZE CALIPER R5



TECHNICAL SPECIFICATIONS

		810.1546
Measuring range	mm	300
Accuracy	mm	0.03
Resolution	mm	0.01
A	mm	425
Bar section	mm	17x5
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		●

* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

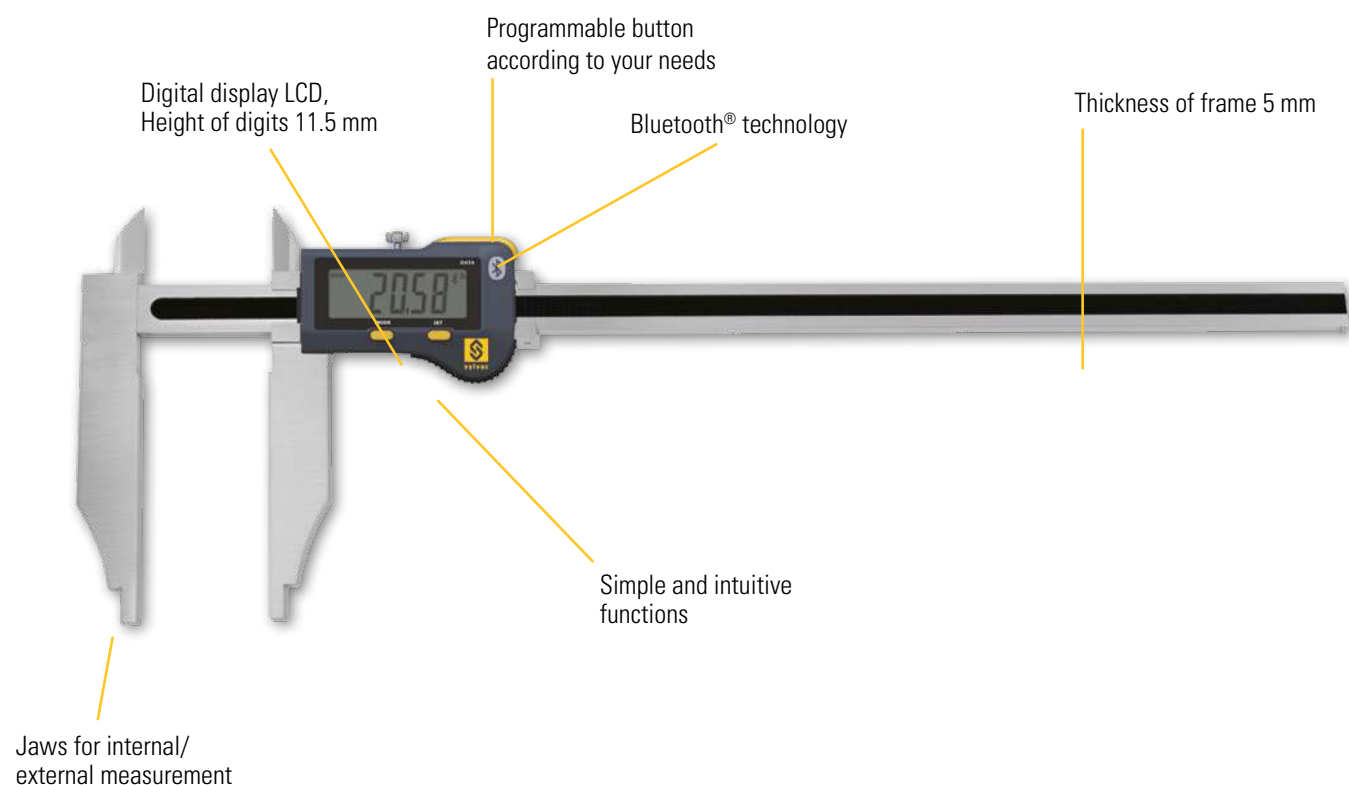
Caliper mid size

S_Cal EVO Form B

DESCRIPTION

MID SIZE CALIPER R5 WITH UPPER JAWS

- **Integrated Bluetooth® wireless technology**
- Mid size caliper r5 for internal/external measurement
- Programmable button according to your needs
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529,
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded
- Great comfort of use thanks to its ergonomic frame



Mid size caliper with upper jaws



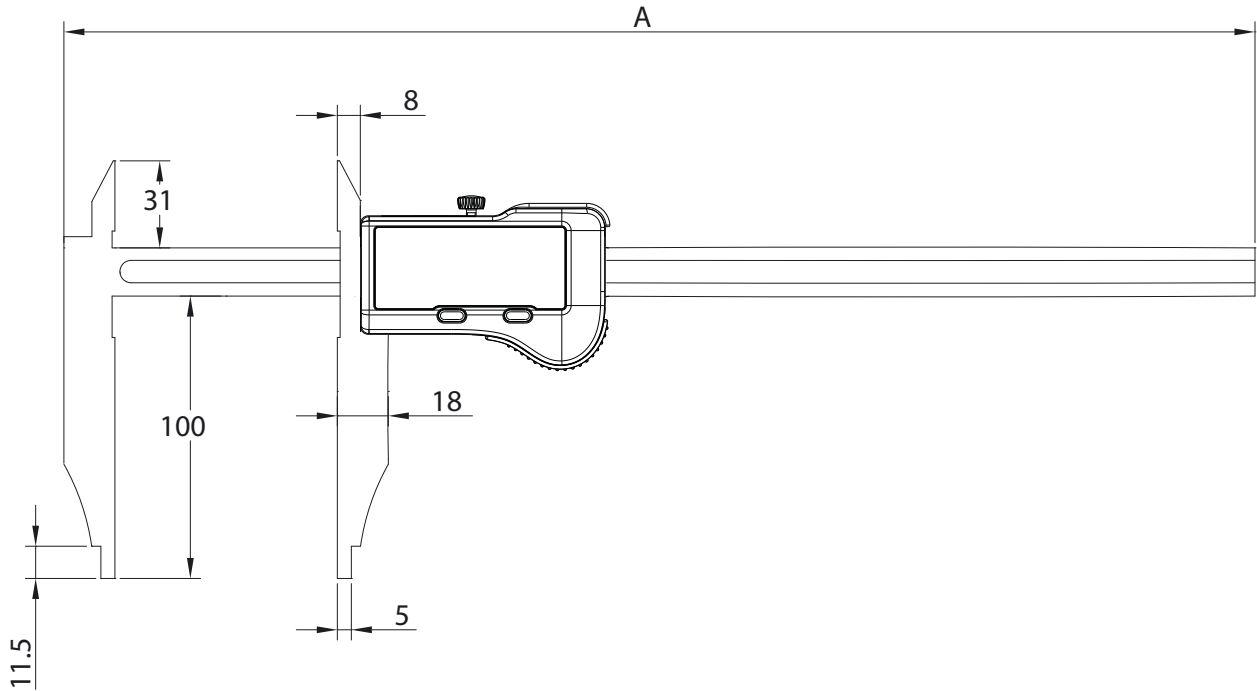
* SIS description on page 5

Caliper mid size

S_Cal EVO Form B

DIMENSIONAL DRAWING

MID SIZE CALIPER R5 WITH UPPER JAWS



TECHNICAL SPECIFICATIONS

		810.1556	810.1558
Measuring range	mm	300	500
Accuracy	mm	0.03	
Resolution	mm	0.01	
A	mm	425	525
Bar section	mm	17x5	
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		●	

*** Up to 8 instruments connected per dongle #981.7100**
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

Depth gauge

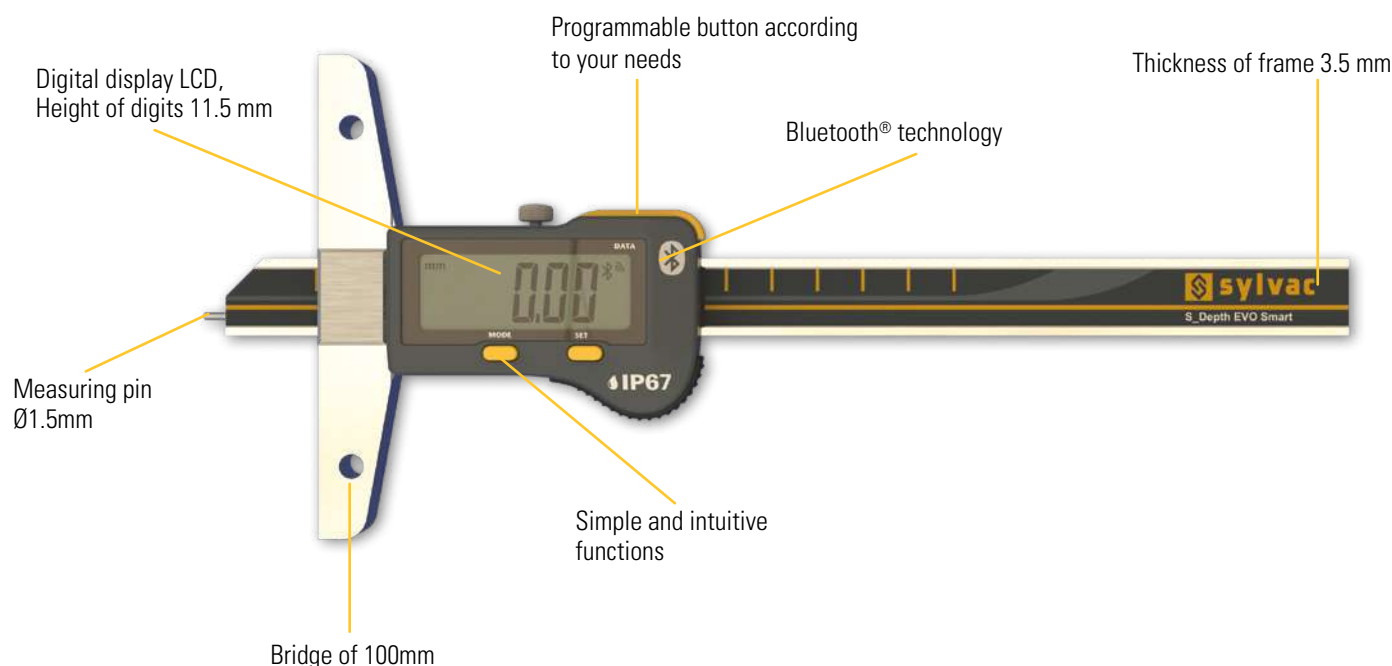
S_Depth EVO Smart

DESCRIPTION

PIN Ø1.5

- **Integrated Bluetooth® wireless technology**

- Depth gauge with bridge 100mm
- Hardened measuring pin Ø1.5mm, length 5mm
- Programmable button according to your needs
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529,
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Mechanical frame in stainless steel, hardened and grinded



SIS Smart Inductive System



IP67

* SIS description on page 5

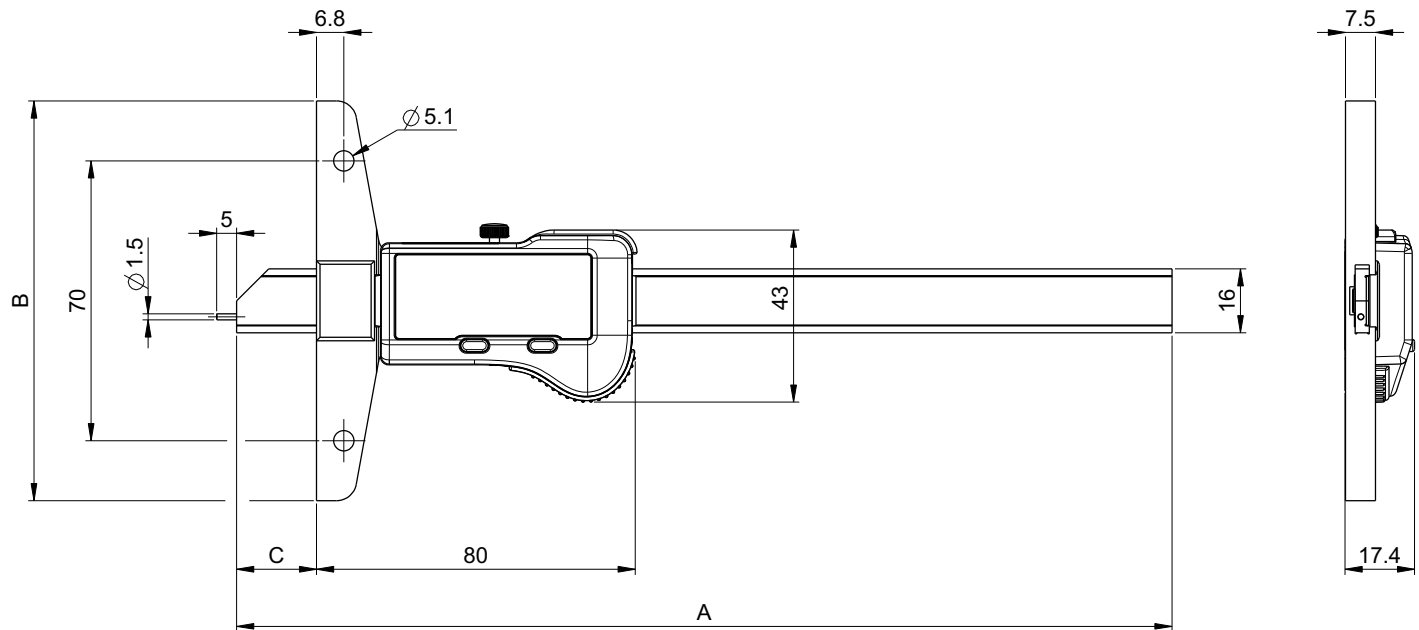
Measuring pin Ø1.5mm

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	µm	20 ¹⁾	30	30
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⁾ > 100 mm : 30 µm / DIN 862

*** Up to 8 instruments connected per dongle #981.7100**
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

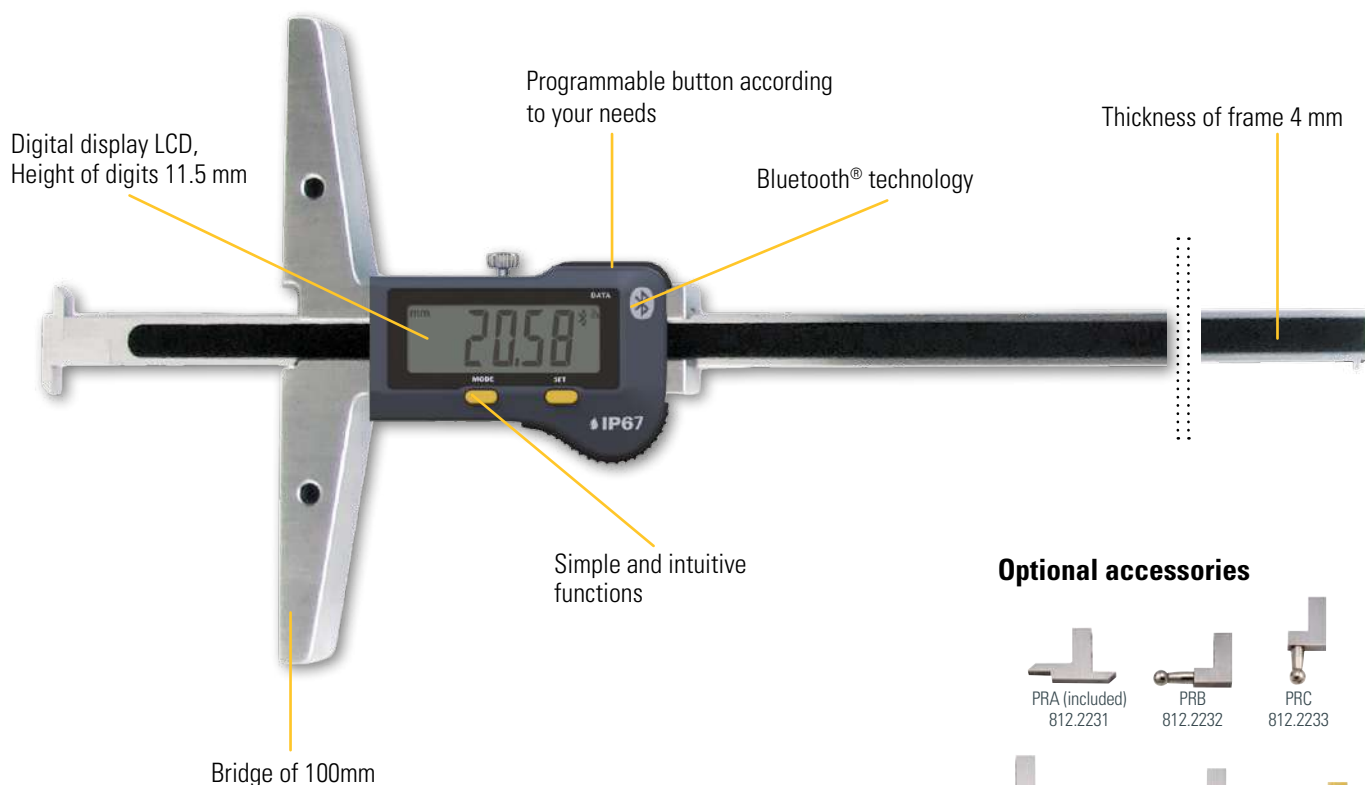
Depth gauge

S_Depth EVO

DESCRIPTION

TWO FIXED MEASURING JAWS

- **Integrated Bluetooth® wireless technology**
- Special depth gauge with bridge 100mm and clamping screw
- Programmable button according to your needs
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529,
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded



Optional accessories



SIS Smart Inductive System



IP67

Interchangeable anvils

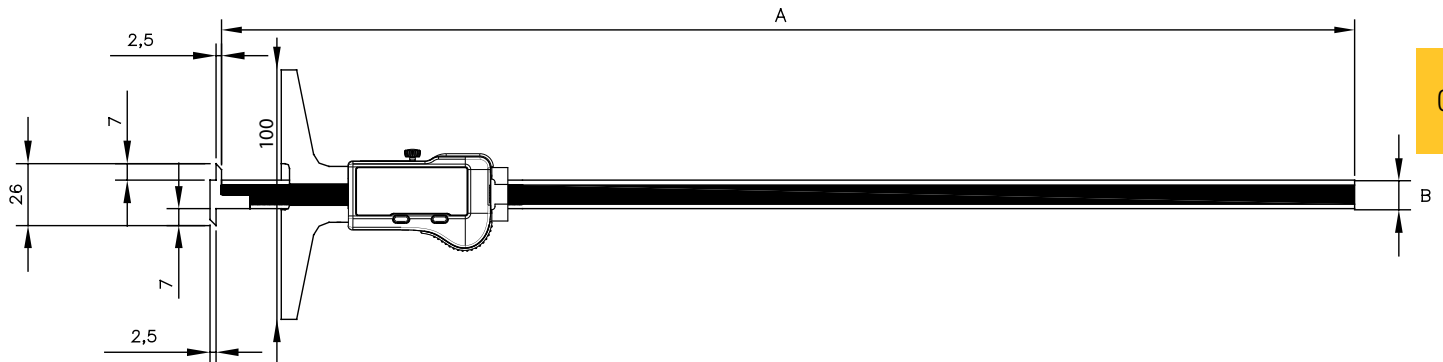
* SIS description on page 5

Depth gauge

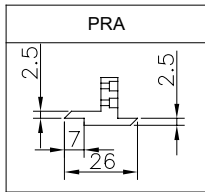
S_Depth EVO

DIMENSIONAL DRAWING

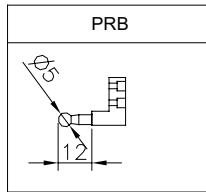
TWO FIXED MEASURING JAWS



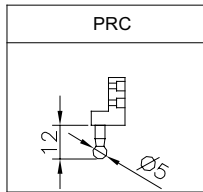
812.2231/812.2237



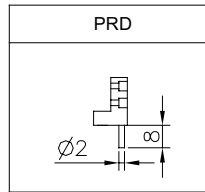
812.2232



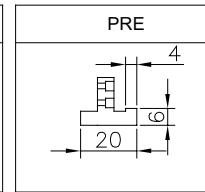
812.2233



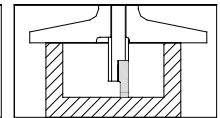
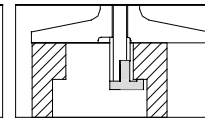
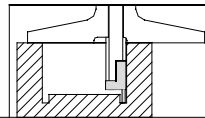
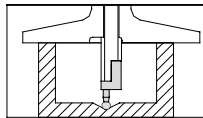
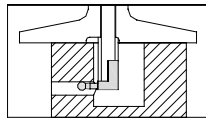
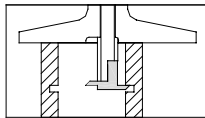
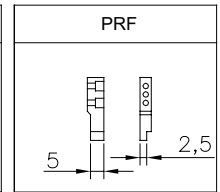
812.2234



812.2235



812.2236



TECHNICAL SPECIFICATIONS

		812.1601	812.1603	812.1605
Measuring range	mm	200	300	500
Max. Error	µm	30	30	50
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		●		

* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

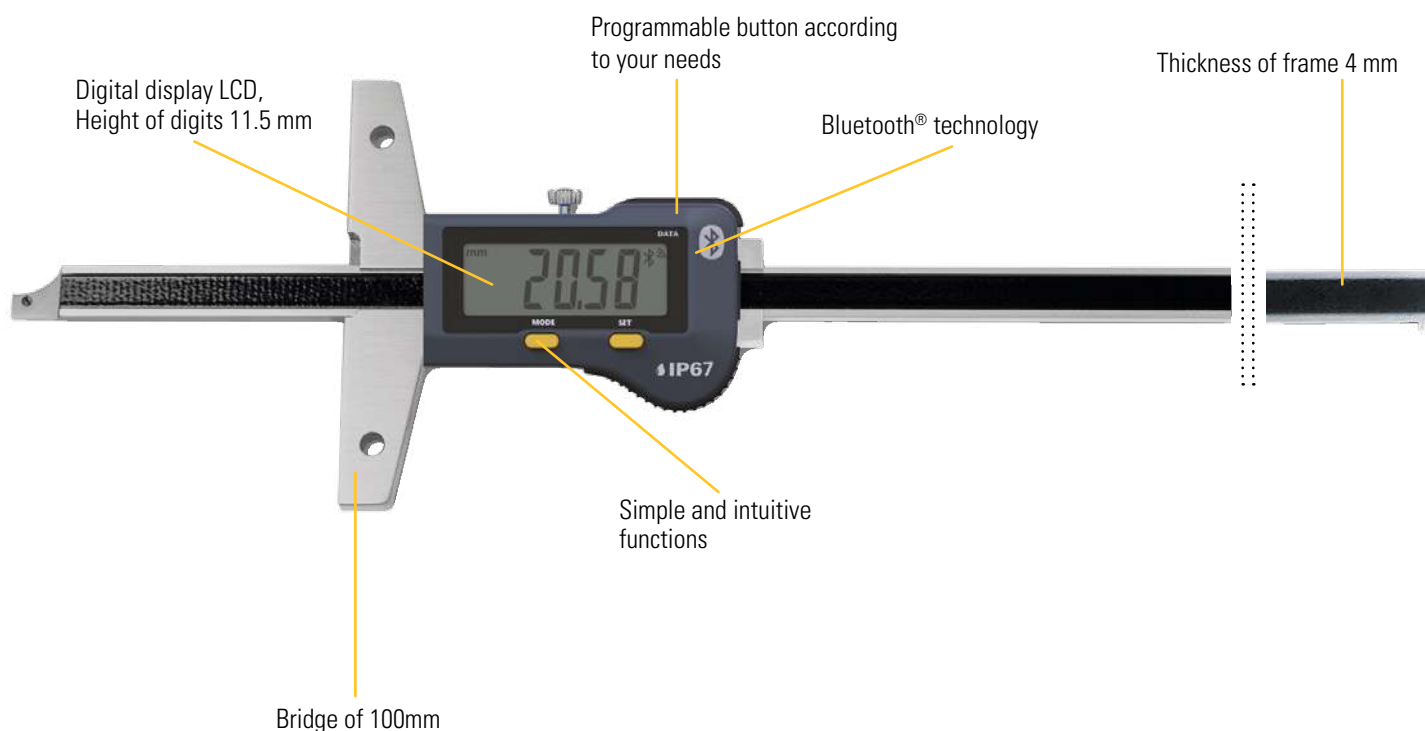
Depth gauge

S_Depth EVO

DESCRIPTION

SHORTCUT MEASURING FACE

- **Integrated Bluetooth® wireless technology**
- Special depth gauge with bridge 100mm and clamping screw
- Programmable button according to your needs
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529,
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded



SIS | Smart Inductive System



IP67

* SIS | Smart Inductive System description on page 5

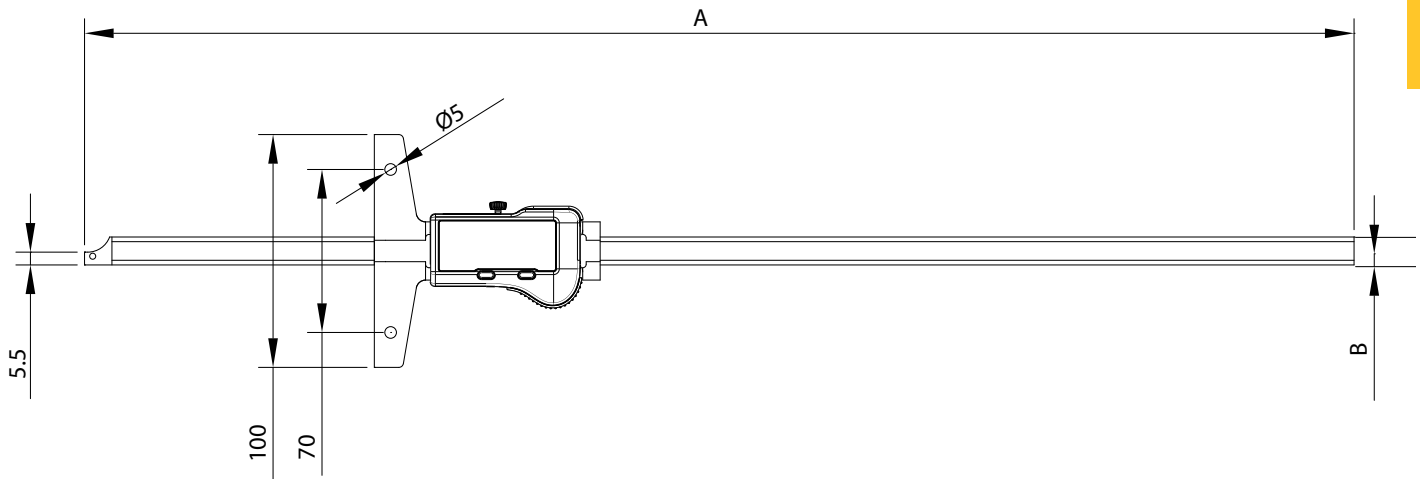
Bridge of 100mm with clamping screw

Depth gauge

S_Depth EVO

DIMENSIONAL DRAWING

SHORTCUT MEASURING FACE



TECHNICAL SPECIFICATIONS

		812.1611	812.1613	812.1615
Measuring range	mm	200	300	500
Max. Error	µm	30	30	50
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		●		

*** Up to 8 instruments connected per dongle #981.7100**
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

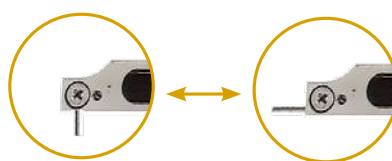
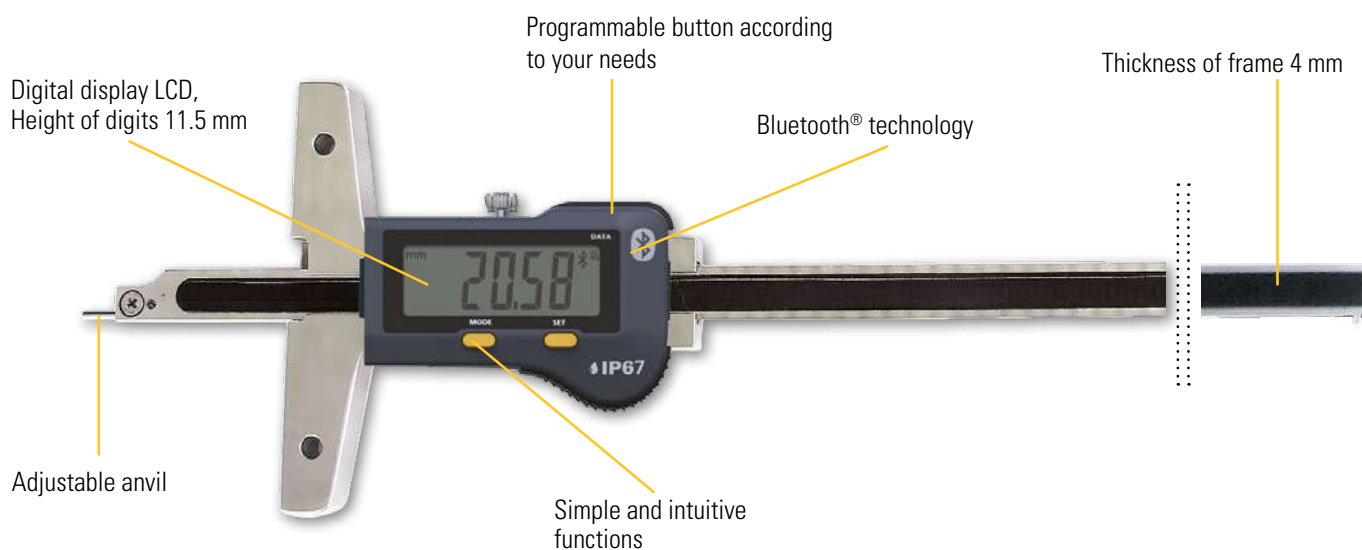
Depth gauge

S_Depth EVO

DESCRIPTION

ROTARY PIN

- **Integrated Bluetooth® wireless technology**
- Special depth gauge double with adjustable anvil and clamping screw
- Programmable button according to your needs
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529,
- Automatic wake-up by moving the electronic on his frame. (Absolute System S.I.S)
- Sleeping mode after 10 min. of no use. (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Maximum speed of displacement : 2.5 m/sec
- Mechanical frame in stainless steel, hardened and grinded



Adjustable anvil !



SIS | Smart Inductive System



IP67

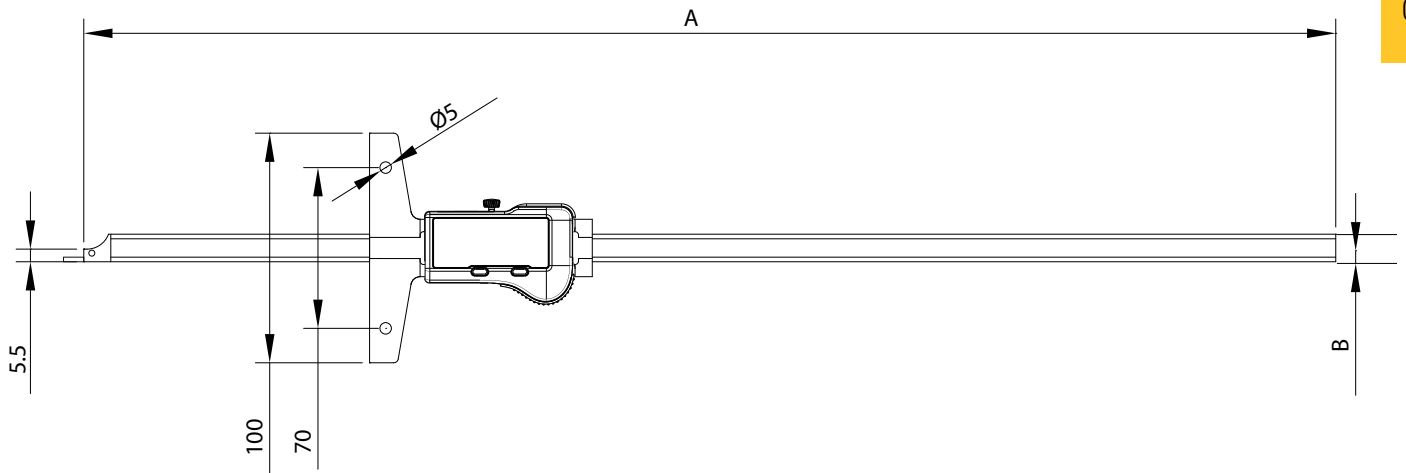
* SIS description on page 5

Depth gauge

S_Depth EVO

DIMENSIONAL DRAWING

ROTARY PIN



TECHNICAL SPECIFICATIONS

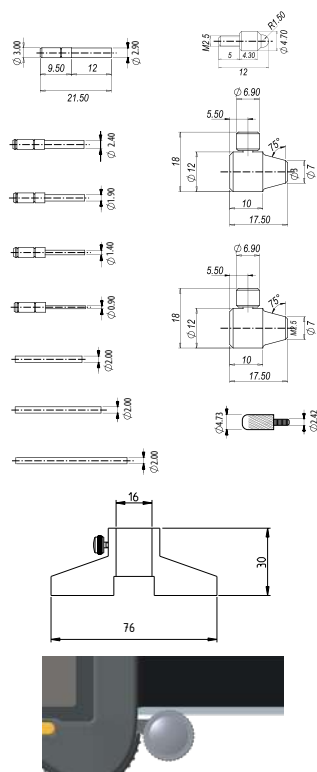
		812.1621	812.1623	812.1625
Measuring range	mm	200	300	500
Max. Error	µm	30	30	50
Resolution	mm	0.01		
A	mm	300	400	600
B	mm	12x4		
Output data		Bluetooth® wireless technology*		
Functions		Zero setting, Preset (max 999.99), mm/inch, Hold, Data		
Smart Inductive Sensor		●		

* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

S_Cal / S_Depth

ACCESSORIES FOR CALIPERS

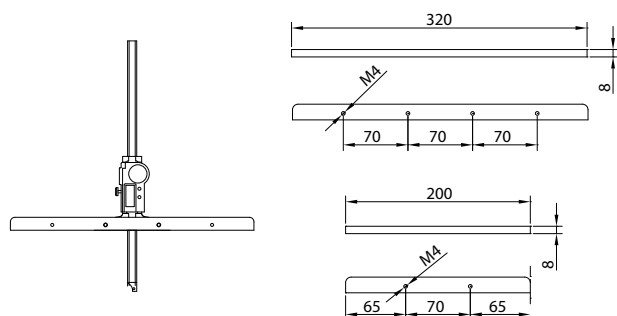
C



		S_Cal EVO Proximity	S_Cal EVO Proximity μm	S_Cal EVO	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		●	●			

See also chapter cables.

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)

C

APPLICATIONS



Depth measurement with S_Cal EVO and base 910.2205.



S_Cal EVO Smart with kit 910.2207
Depth measurement of small internal \varnothing



S_Cal EVO Standard measurement



Part measurement with S_Cal μm



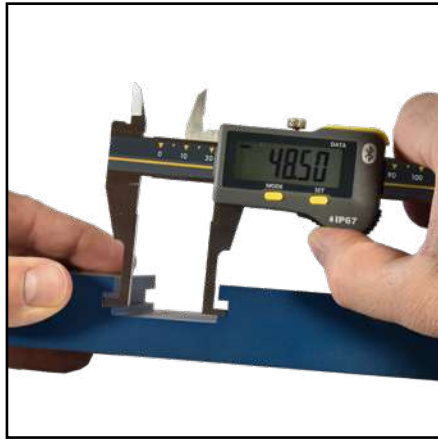
Part measurement with sending data



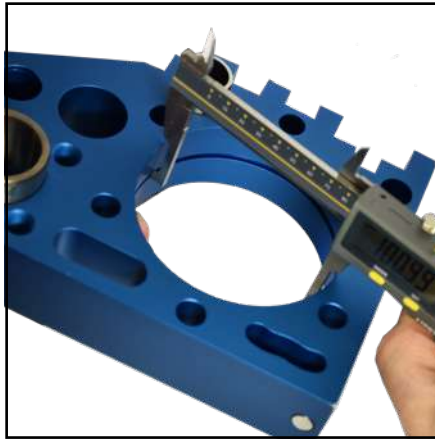
Depth measurement with S_Cal EVO

Special S_Cal & S_Depth

APPLICATIONS



Internal groove measurement with S_Cal EVO Smart IG



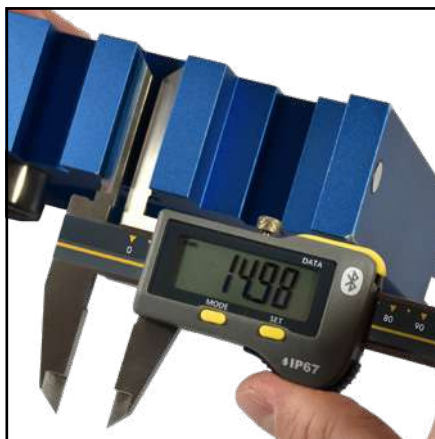
Internal groove measurement with S_Cal EVO Smart IG



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



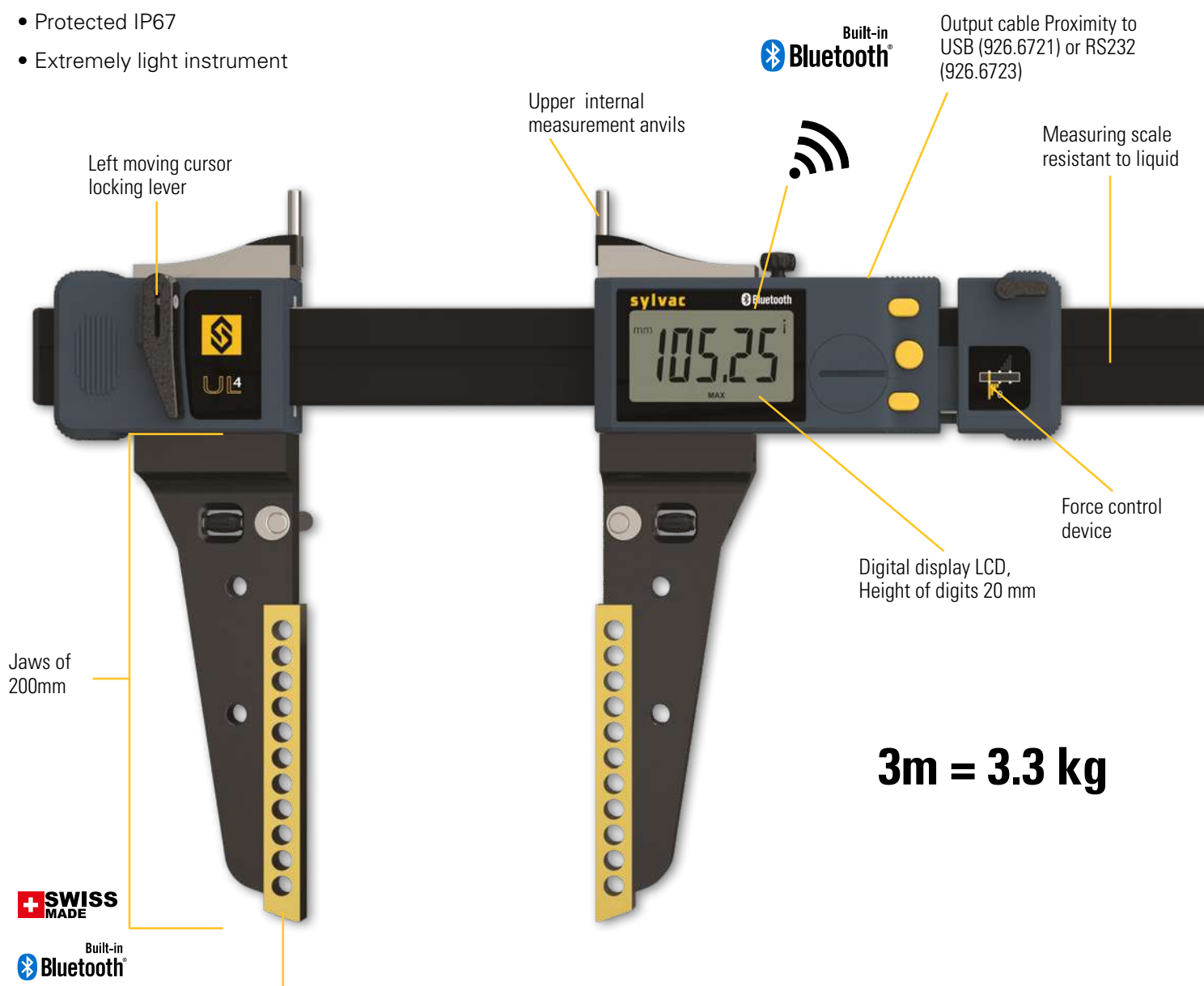
S_Depth EVO Smart TJ communicating with Sylvac Anywhere App on touchpad

Ultra light caliper

UL4

DESCRIPTION

- Ultra light caliper for external and internal measurements
- **Integrated Bluetooth® wireless technology**
- New Series with extra large display
- Aluminium beam reinforced by four stainless steel rods
- Long jaws 200 mm coated with titanium
- New carbide upper internal tips
- Measuring force applied control
- Protected IP67
- Extremely light instrument



PROXIMITY

Stainless steel external jaws, thickness 8 mm, titanium coated



IP67

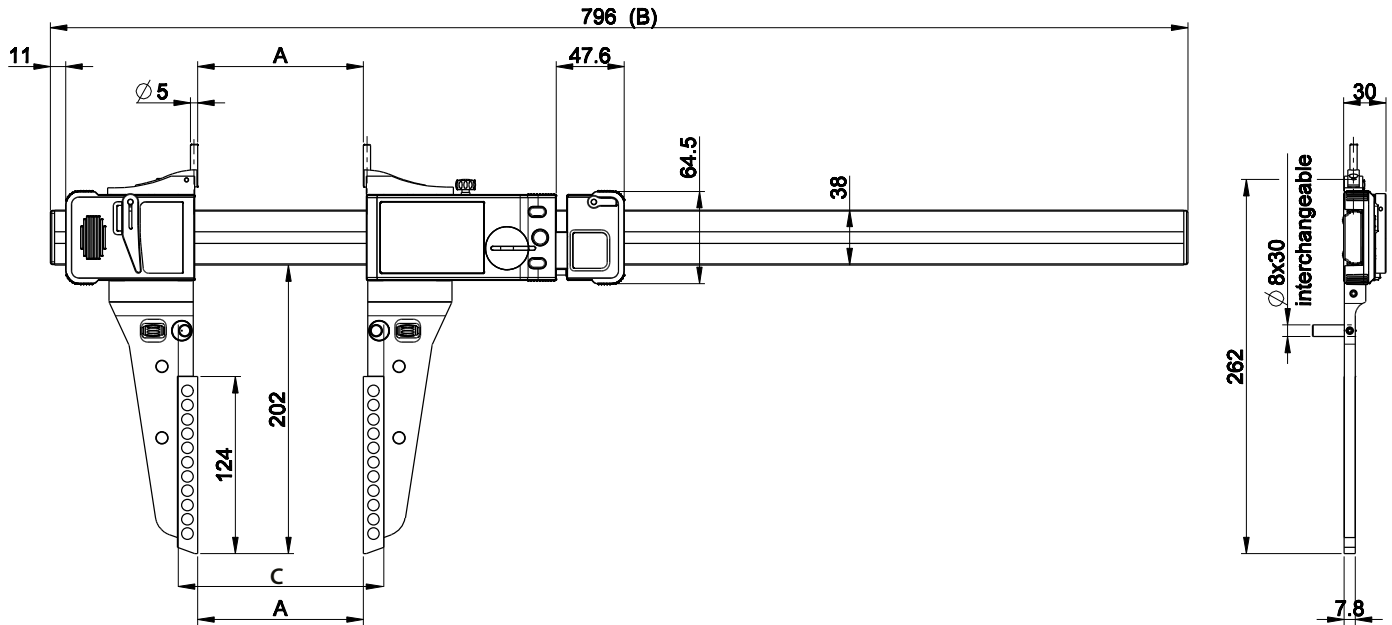
3m = 3.3 kg



Ultra light caliper

UL4

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

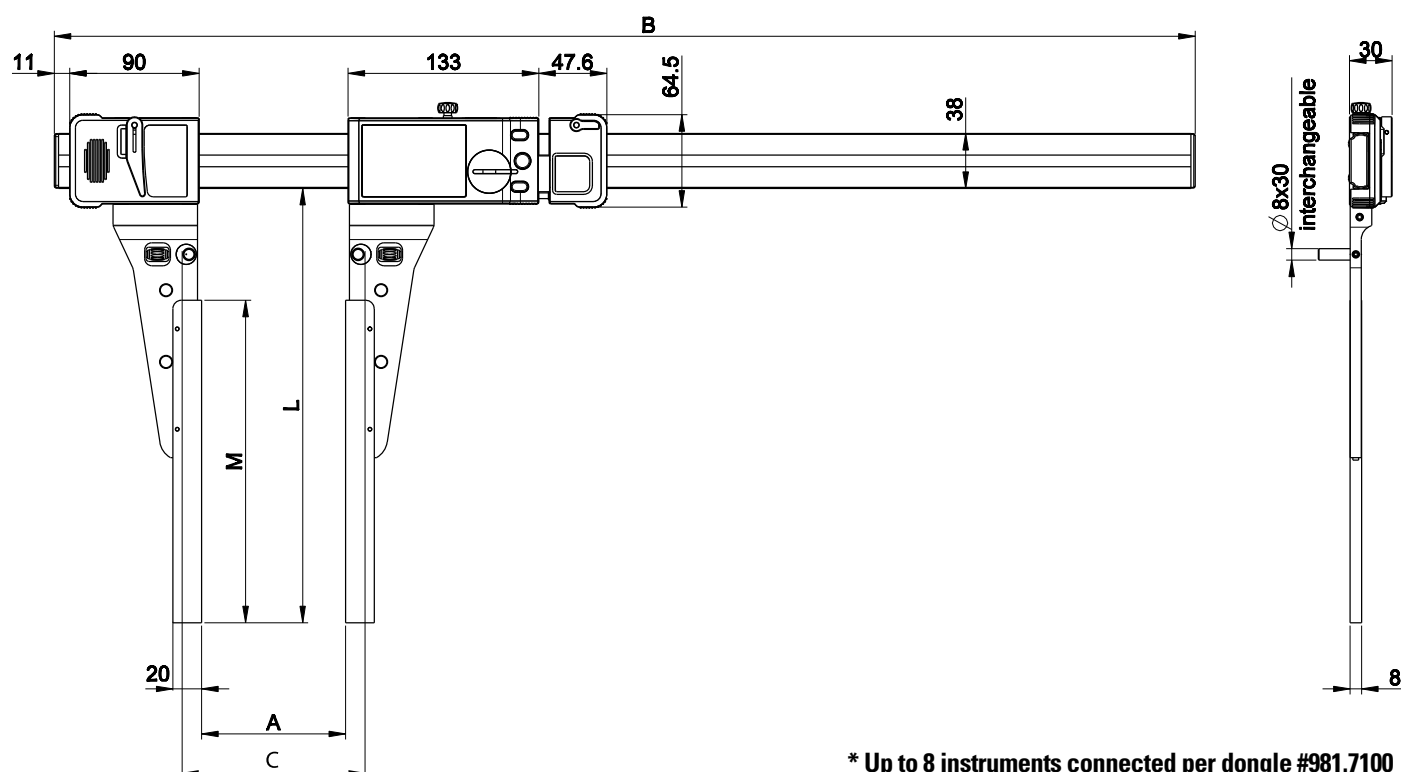
		811.1404	811.1406	811.1410	811.1415	811.1420	811.1425	811.1430
Measuring range	mm	400	600	1000	1500	2000	2500	3000
Max.Error	µm	30	40	50	90	120	150	200
Repeatability	µm	20				30		
Resolution	mm	0.01						
A	mm	0-478	0-683	0-1093	0-1608	0-2123	0-2638	0-3153
C	mm	27-505	27-710	27-1110	27-1635	27-2150	27-2665	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		●						

* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

Ultra light caliper

UL4

SPECIAL EXECUTIONS | SPECIAL JAWS TYPE A



* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

TECHNICAL SPECIFICATIONS

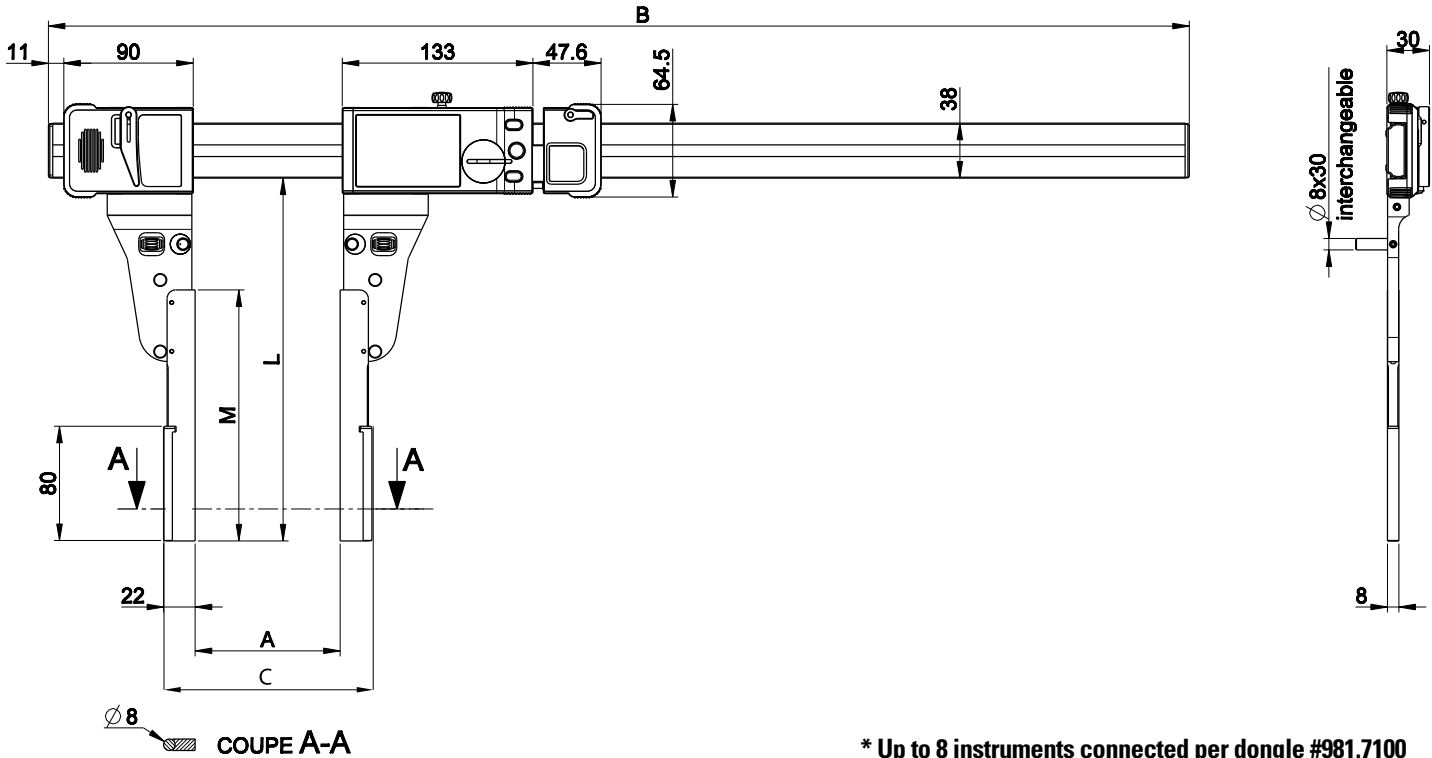
		811.2316.99	811.2317.99
Special jaws (pair)		Lenght L to specify with order (max 400 mm)	
L	mm	≤ 300	≤ 400
M	mm	L - 75	

		UL 400	UL 600	UL 1000	UL 1500	UL 2000	UL 2500	UL 3000
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



* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

TECHNICAL SPECIFICATIONS

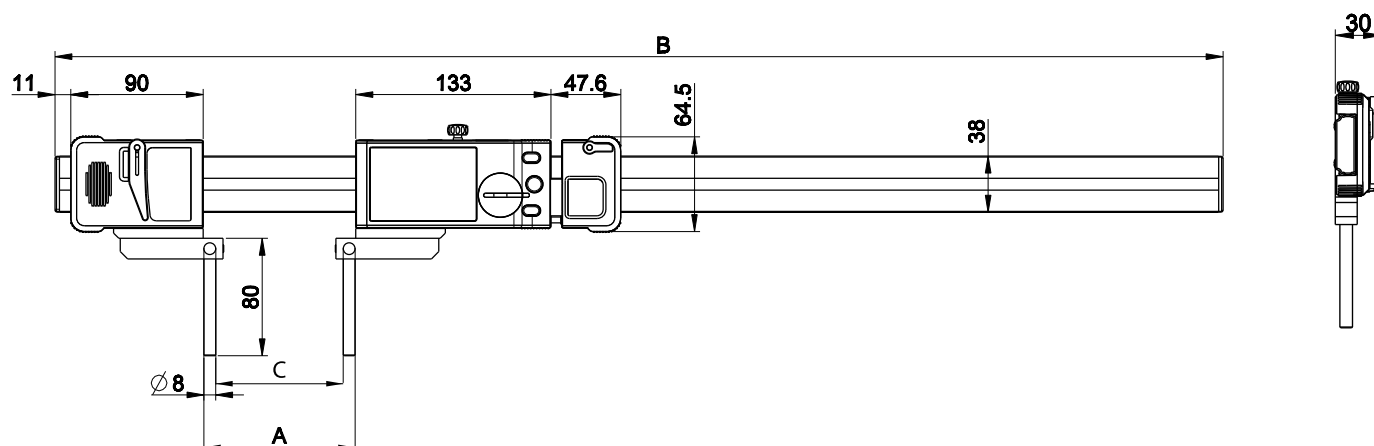
811.2319.99		
Special jaws (pair)		Lenght L to specify with order (max 300 mm)
L max	mm	300
M	mm	L - 75

		UL 400	UL 600	UL 1000	UL 1500	UL 2000	UL 2500	UL 3000
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

UL H4

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

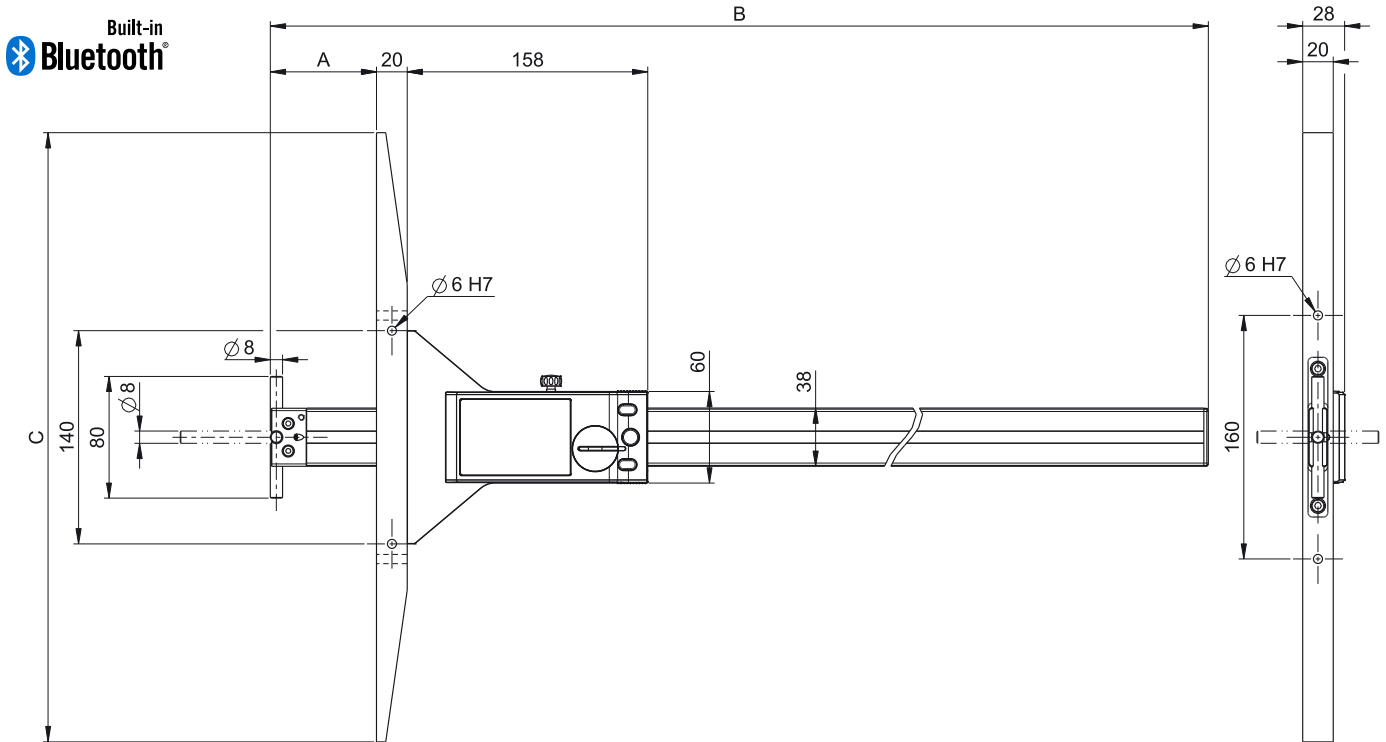
		811.8040	811.8060	811.8100	811.8150	811.8200	811.8250	811.8300
Measuring range	mm	400	600	1000	1500	2000	2500	3000
Max.Error	µm	30	40	50	90	120	150	200
Repeatability	µm	20				30		
Resolution	mm	0.01						
A	mm	26-480	26-685	26-1095	26-1610	26-2125	26-2640	26-3155
C	mm	10-464	10-669	10-1079	10-1594	10-2109	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		●						

* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

Ultra light depth gauge

UL V4

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

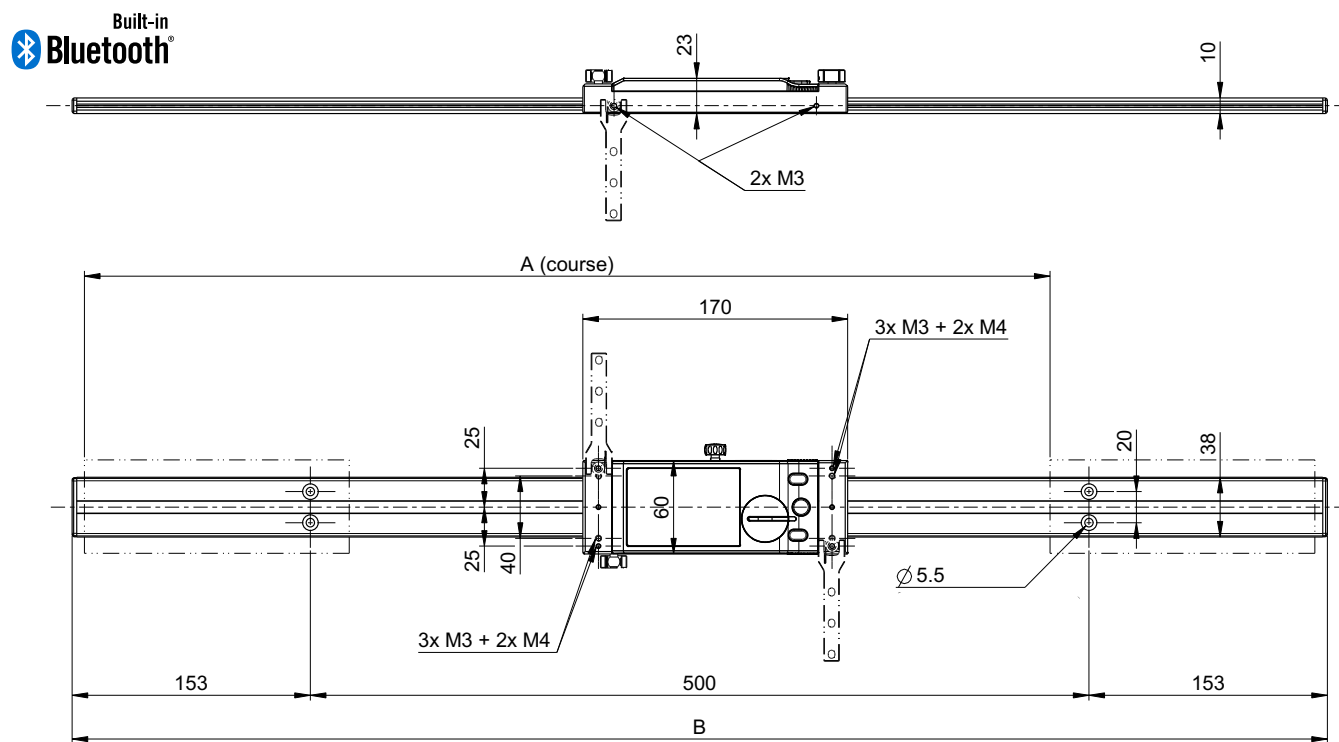
		811.6100	811.6150
Measuring range	mm	1000	1500
Max.Error	µm	100	130
Repeatability	µm	20	
Resolution	mm	0.01	
A	mm	0 - 1030	0 - 1545
C	mm	400	600
B	mm	1242	1757
Output data		Bluetooth® wireless technology* / RS232 / USB	
IP67 Protection		●	
Preset max.		±9999.99 mm / ±399.9995 IN	
Weight	kg	2.2	3.16
Setting by PC		●	
2 references		●	
Min/Max function		●	
Tolerance limit indicators		●	

* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

Ultra light digital scale

UL D4

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		814.1510	814.1515	814.1520	814.1525	814.1530
Measuring range	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		●				

*** Up to 8 instruments connected per dongle #981.7100**
 More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

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

C



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

C



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

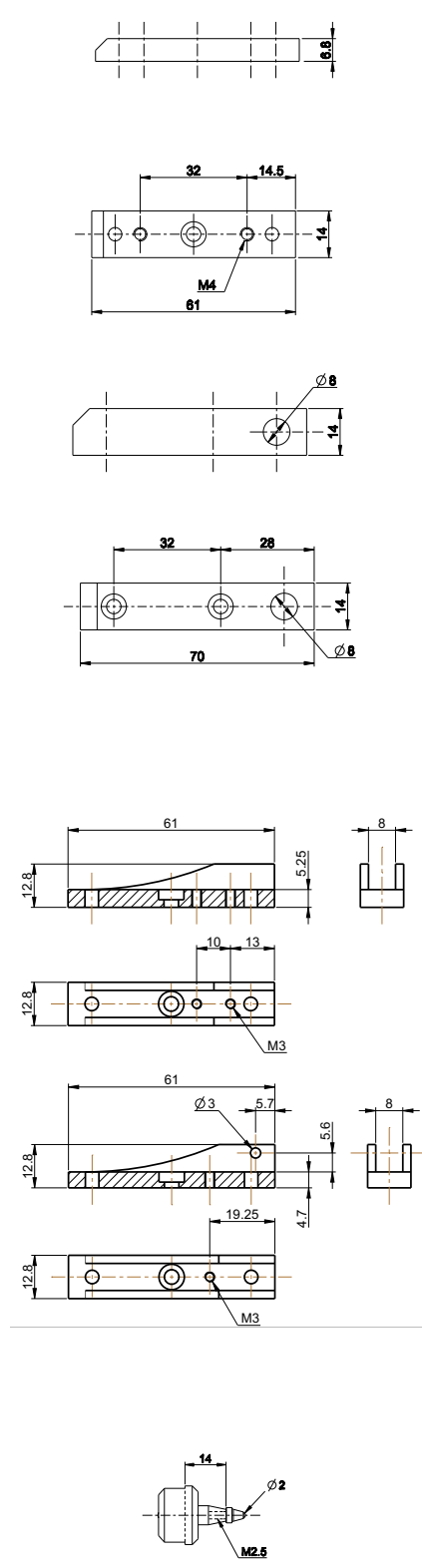


ULD4

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

Ultra light caliper

ACCESSORIES

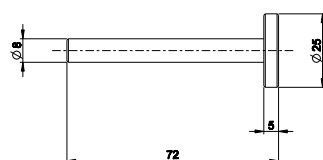
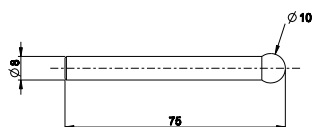
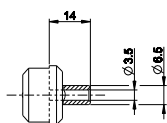
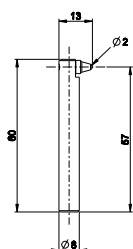
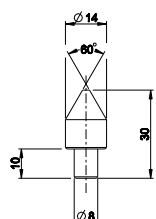
		UL4	UL H4	ULV4	UL D4
	811.2301	Universal base (2 pieces)	●	●	
	811.2302	Ø8 Anvil holder (2 pieces, to combine with 811.2301)	●	●	
	811.2303	Accessories holder (2 different pieces)	●	●	
	811.2305	Support with int. thread M 2.5 (2 pieces)	●		

See also cables chapter

Ultra light caliper

ACCESSORIES

C




		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	
	811.2321	Lower plate for internal anvil (2 pieces) (for Bowers Unical's «L anvils»)	●	●		
	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)	●	●		

C

APPLICATIONS



Internal measure with UL4



External measure with UL4



MICROMETERS

Our range of professional micrometers with protection against water and IP67 cutting oils is fitted with our patented Absolute System and consists of several models, equipped with a fast displacement of the spindle (10mm/rotation).

A cylindrical model, with discs, ball, knives or cable crimping, you will definitely find your solution in this chapter.

Sylvac inductive measuring system (patented)

Data output

Non-rotative spindle, quick mike

Power supply: Lithium battery 3V, Type CR 2032



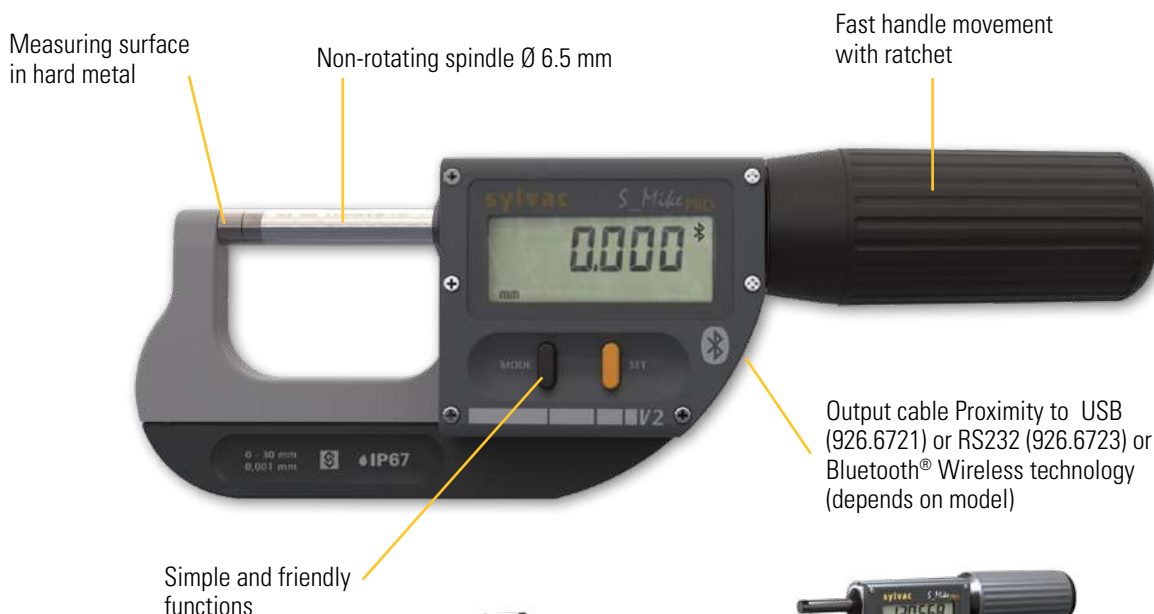
Professional micrometer

S_Mike PRO

DESCRIPTION

CYLINDRICAL Ø6.5

- Automatic wake-up by moving the measuring spindle (Absolute System S.I.S)
- Sleeping mode after 20 min. of no use (Absolute System S.I.S)
- Position memorized in sleeping mode, **Absolute System S.I.S***
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP67 according to IEC 60529, **even connected**
- Measuring range 0-161 mm **covered with 5 instruments only**
- Set of 3 micrometers 0-102 mm available
- Quick displacement of the measuring spindle 10 mm / rotation
- Adjustable measuring force 5N / 10N (versions 903.030X)
- Repeatability and reproducibility never reached before
- Thimble in polyacetal-copolymer

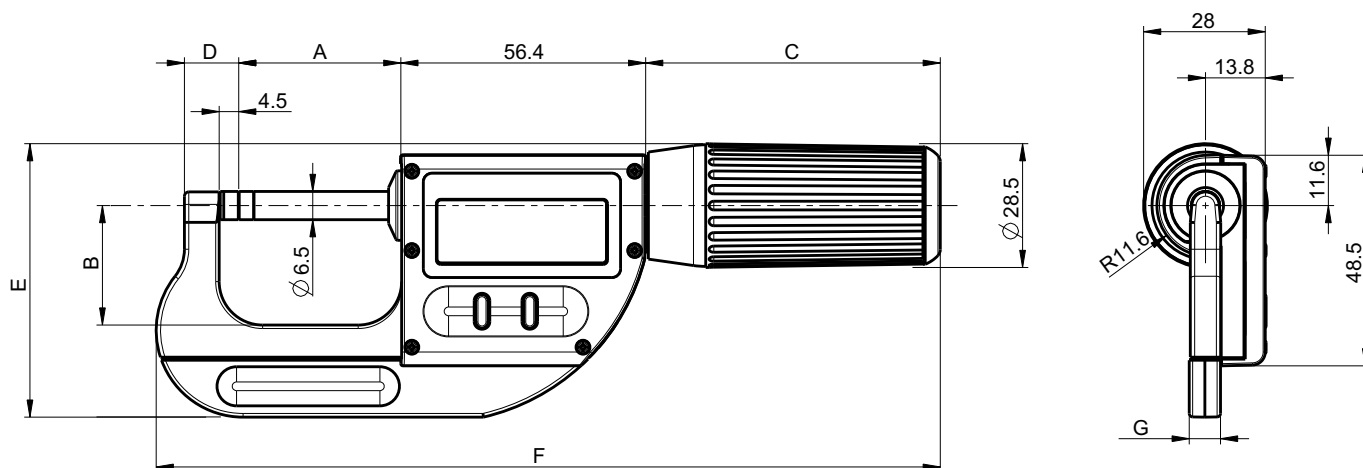


Professional micrometer

S_Mike PRO

DIMENSIONAL DRAWING

CYLINDRICAL Ø6.5 SMART



TECHNICAL SPECIFICATIONS

		803.0306	903.0606	903.1006
Measuring range	mm	0-30	30-66	66-102
Max. Error G ¹⁾	µm	3	4	5
Repeatability ²⁾	µm	1	1	1
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

²⁾ ± 1 digit

³⁾ Other anvils type on demand.

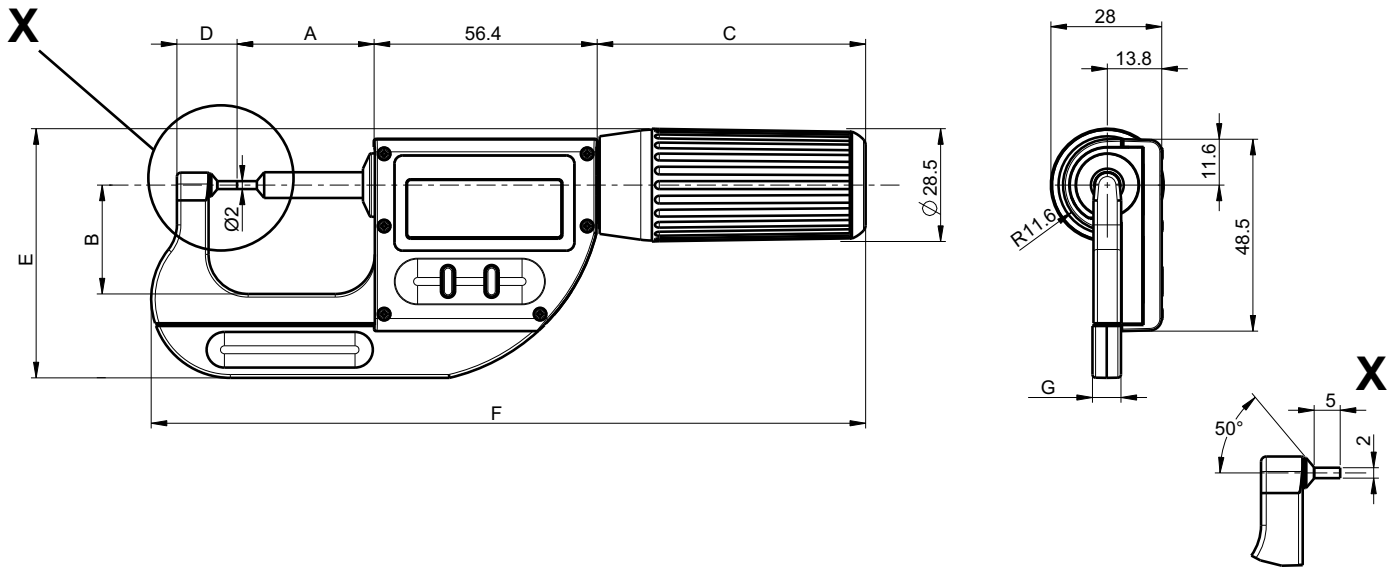
* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

Professional micrometer


S_Mike PRO

DIMENSIONAL DRAWING

CYLINDRICAL Ø2



TECHNICAL SPECIFICATIONS

		803.0301	903.0601	903.1001	803.0307
Measuring range	mm	0-25	25-60	60-95	0-25
Max. Error G ¹⁾	µm	3	4	5	3
Repeatability ²⁾	µm	1	1	1	1
Anvils types		Ø2			Ø2
A	mm	34.6	70.6	106.6	34.6
B	mm	27.5	43	60	27.5
C	mm	68	74	74	68
D	mm	15.2	16.2	17.2	15.2
E	mm	63	86	106	63
F	mm	181	230	269	181
G	mm	7.2	9	9	7.2
Output data		USB / RS 232 ³⁾			 Bluetooth*
Prot. rating accor. to IEC 60529		IP67 even connected			
Setting by PC		●			
Adjustable measuring force		5N / 10N	10N		5N / 10N
Non-rotating spindle		●			
Fast movement		●			
Preset function		●			
Smart Inductive Sensor		●			

¹⁾ according to DIN 863

²⁾ ± 1 digit

³⁾ see cables chapter

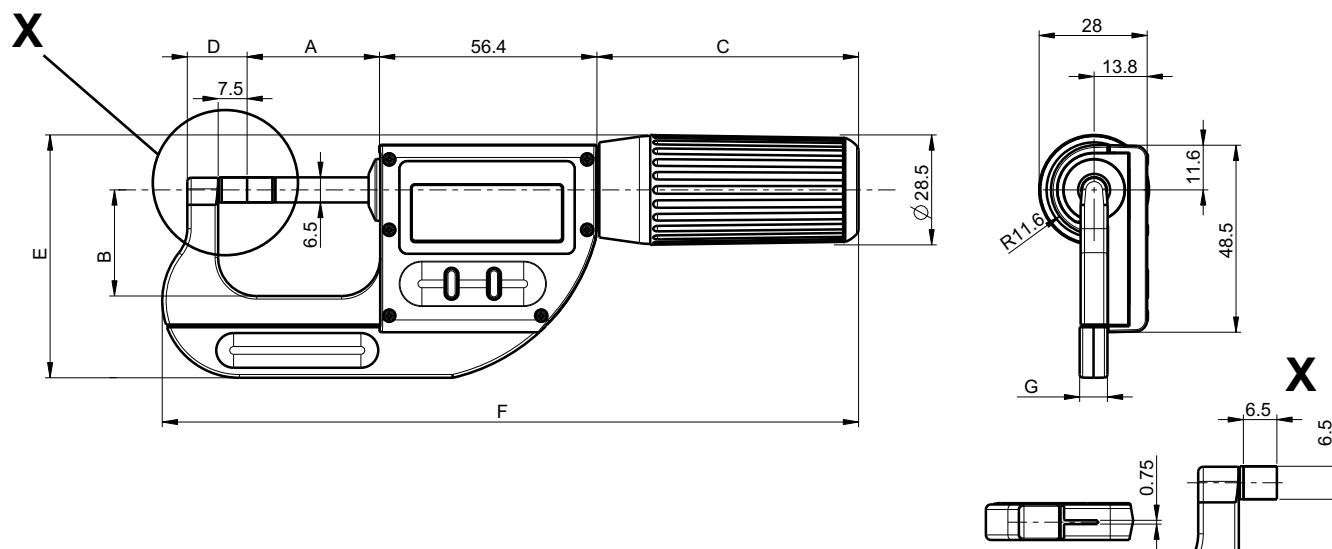
*** Up to 8 instruments connected per dongle #981.7100**
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

Professional micrometer


S_Mike PRO

DIMENSIONAL DRAWING

KNIFE-SHAPED



TECHNICAL SPECIFICATIONS

		803.0302	903.0602	903.1002	903.1302	903.1602	803.0308
Measuring range	mm	0-25	25-60	60-95	95-130	120-155	0-25
Max. Error G ¹⁾	µm	3	4	5	6	7	3
Repeatability ²⁾	µm	1	1	1	2	2	1
Anvils types		0.75x6.5					0.75x6.5
A	mm	34.3	70.3	106.3	140.3	165.3	34.3
B	mm	27.5	43	60	95	110	27.5
C	mm	68	74	74	74	74	68
D	mm	15.5	16.5	17.5	22.5	22.5	15.5
E	mm	63	86	106	151	169	63
F	mm	181	230	269	306	339	181
G	mm	7.2	9	9	9	9	7.2
Output data		USB / RS 232 ³⁾					 Bluetooth*
Prot. rating accor. to IEC 60529		IP67 even connected					
Setting by PC		●					
Adjustable measuring force		5N / 10N	10N				5N / 10N
Non-rotating spindle		●					
Fast movement		●					
Preset function		●					
Smart Inductive Sensor		●					

¹⁾ according to DIN 863

²⁾ ± 1 digit

³⁾ see cables chapter

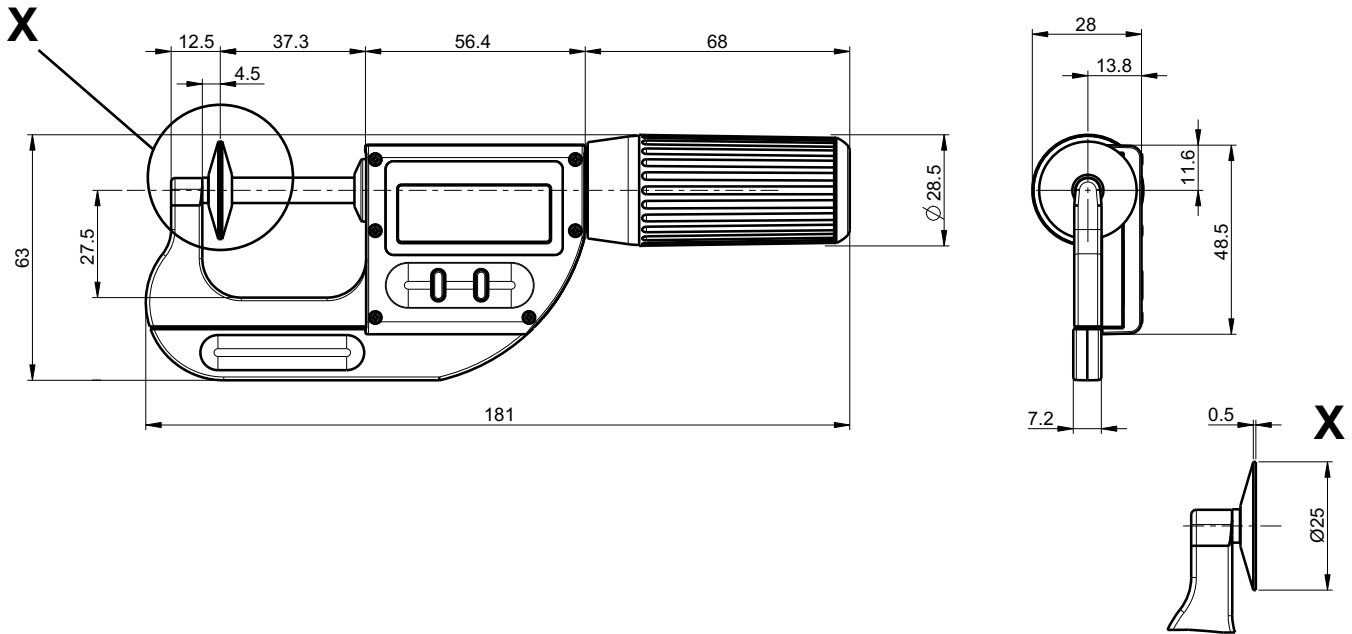
* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

Professional micrometer

S_Mike PRO

DIMENSIONAL DRAWING

DISC-SHAPED



TECHNICAL SPECIFICATIONS

		803.0303
Measuring range	mm	0-30
Max. Error G ¹⁾	µm	4 (full-touch-contact) / 10 (partial contact)
Repeatability ²⁾	µm	1
Flatness	µm	2
Parallelism	µm	5 (full-touch-contact) / 10 (partial contact)
Gear unit		Measurable module ≥ 0.5
Anvils types		Ø25
Output data		USB / RS 232 ³⁾
Prot. rating accor. to IEC 60529		IP67 even connected
Setting by PC		●
Adjustable measuring force		5N
Non-rotating spindle		●
Fast movement		●
Preset function		●
Smart Inductive Sensor		●

¹⁾ according to DIN 863

²⁾ ± 1 digit

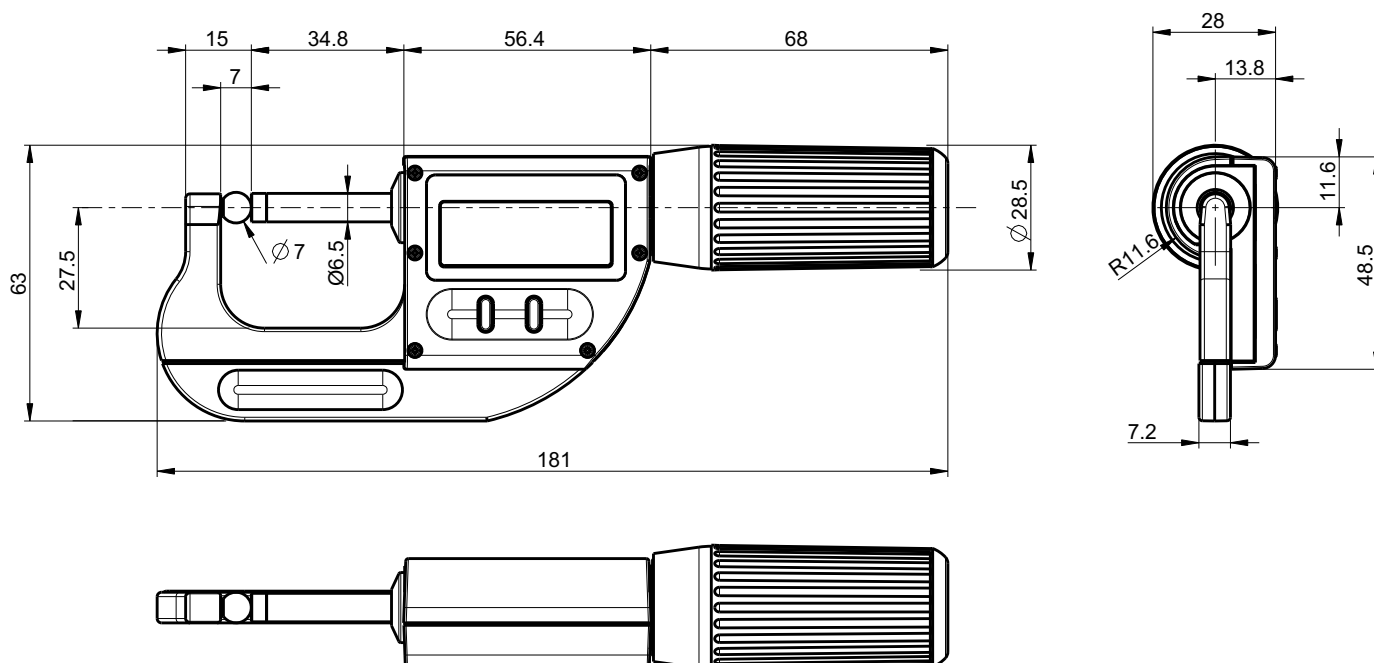
³⁾ see cables chapter

Professional micrometer

S_Mike PRO

DIMENSIONAL DRAWING

FLAT Ø6.5 / SPHERICAL Ø7



TECHNICAL SPECIFICATIONS

		803.0304
Measuring range	mm	0-30
Max. Error G ¹⁾	µm	3
Repeatability ²⁾	µm	1
Parallelism	µm	1
Anvils types		Ø7 flat and Ø7 spherical
Output data		USB / RS 232 / Wireless ³⁾
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

²⁾ ± 1 digit

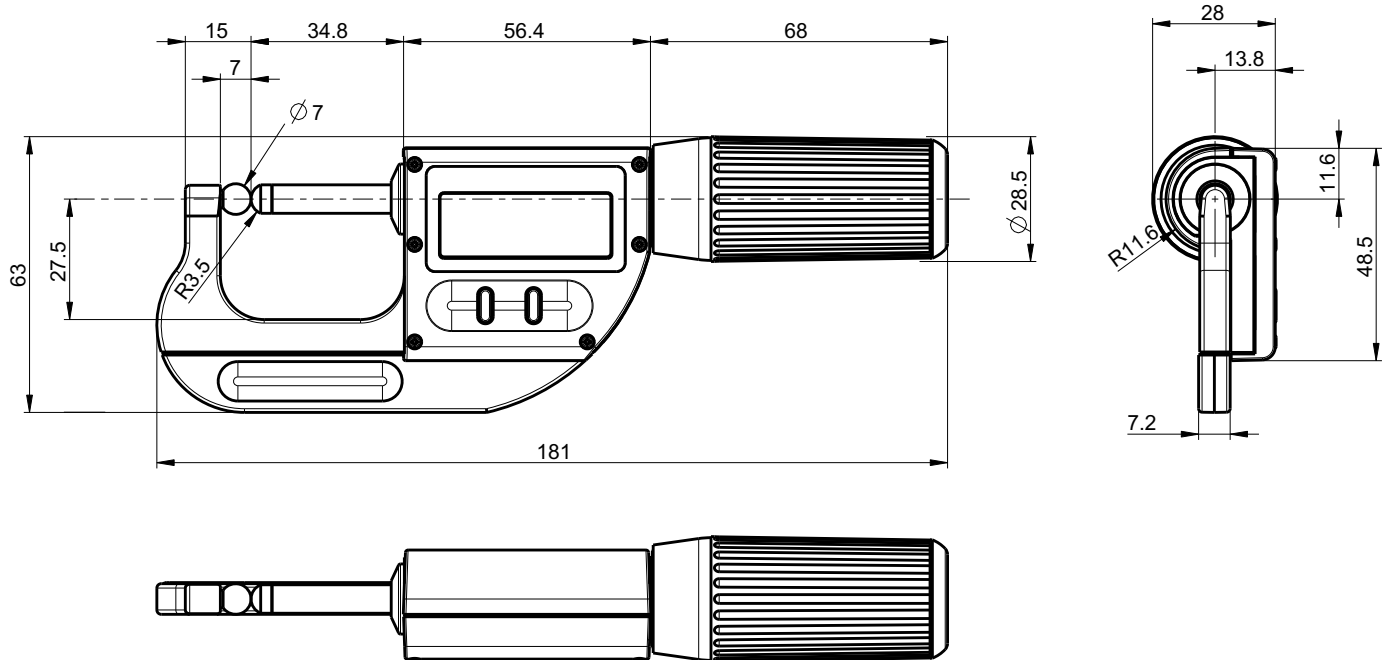
³⁾ see cables chapter

Professional micrometer

S_Mike PRO

DIMENSIONAL DRAWING

SPHERICAL Ø7



TECHNICAL SPECIFICATIONS

		803.0305
Measuring range	mm	0-25
Max. Error G ¹⁾	µm	4
Repeatability ²⁾	µm	1
Anvils types		Ø7 2 spherical
Output data		USB / RS 232 / Wireless ³⁾
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

²⁾ ± 1 digit

³⁾ see cables chapter

Professional micrometer

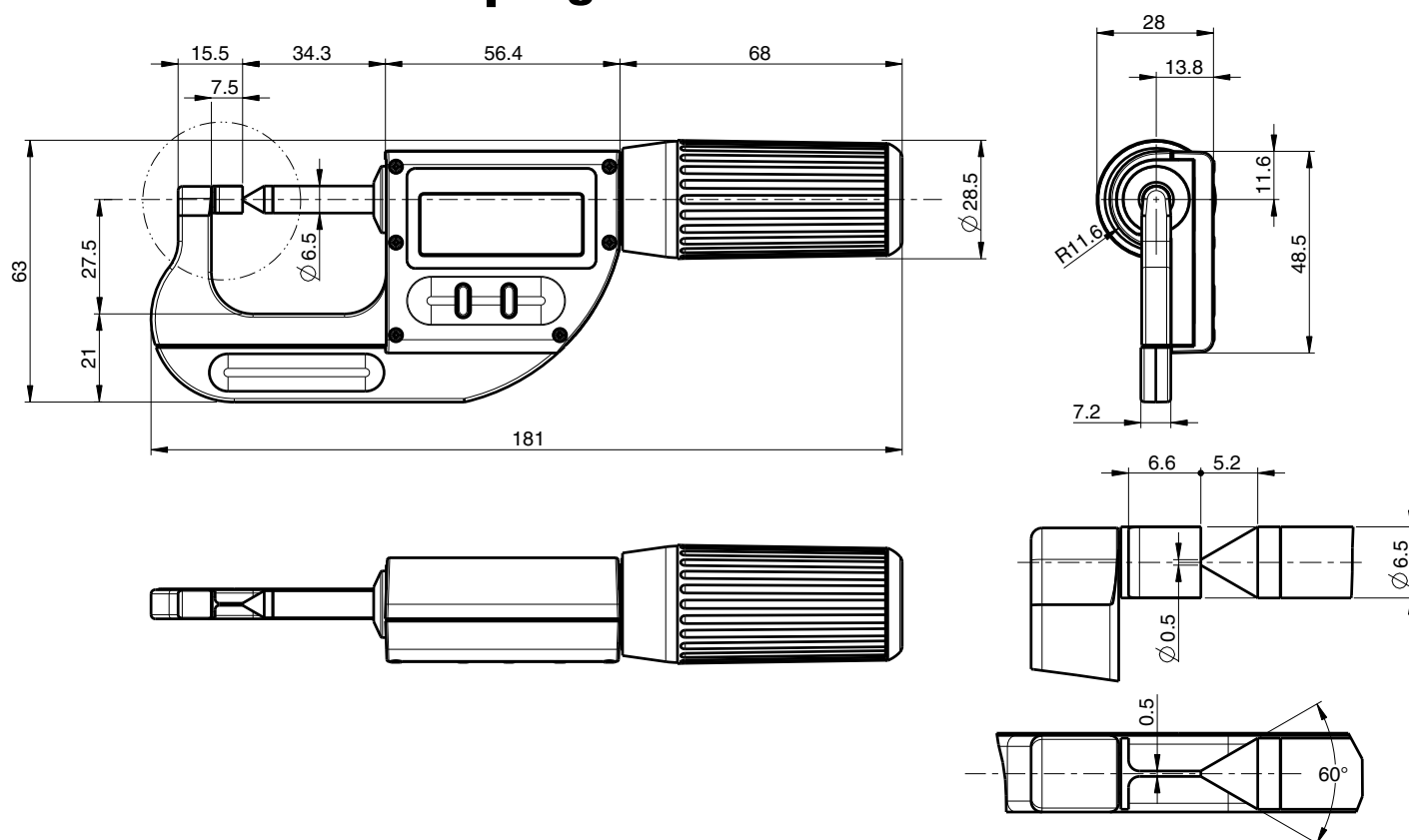
S_Mike PRO

DIMENSIONAL DRAWING

KNIFE-SHAPED / CONE



Cable crimping



TECHNICAL SPECIFICATIONS

		803.0309
Measuring range	mm	0-25
Max. Error G 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

²⁾ ± 1 digit

* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

Professional micrometer

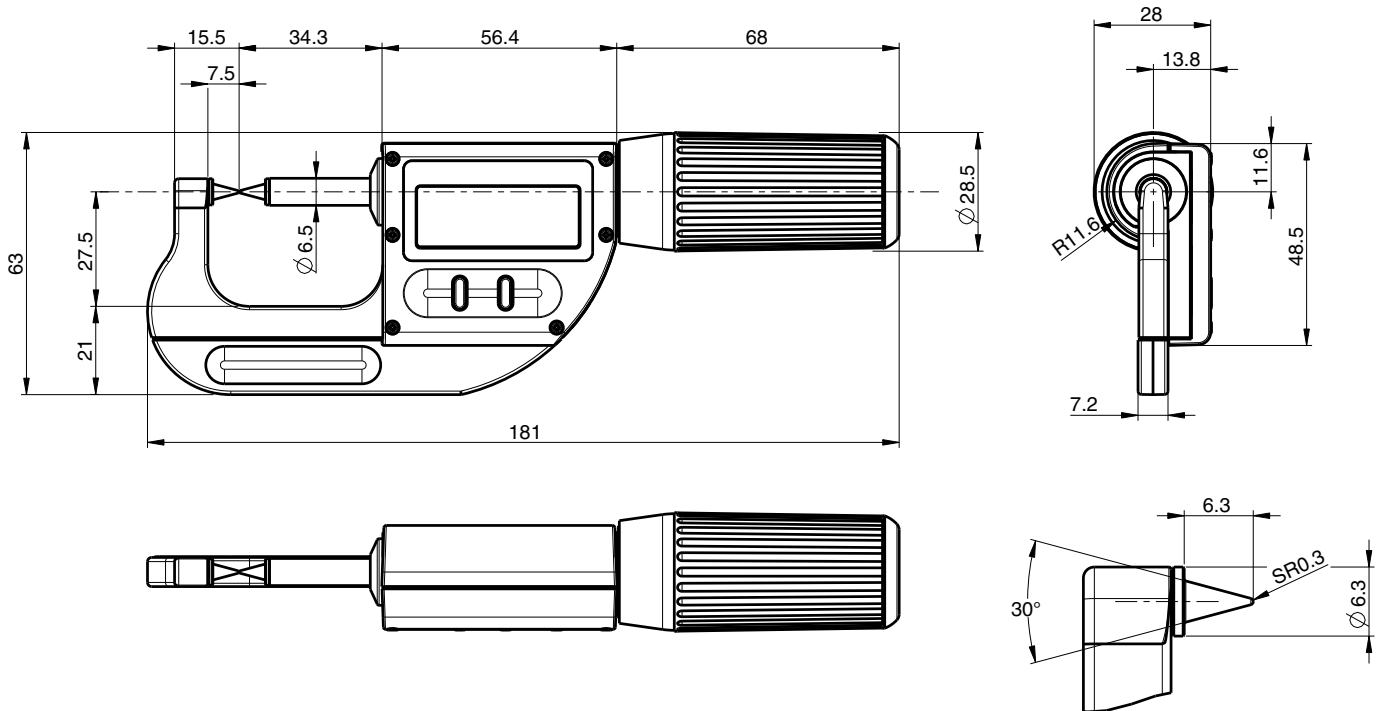
S_Mike PRO

DIMENSIONAL DRAWING

POINT / SPHERICAL



Fluted Shaft



TECHNICAL SPECIFICATIONS

		803.0310
Measuring range	mm	0-25
Max. Error G 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

²⁾ ± 1 digit

* Up to 8 instruments connected per dongle #981.7100
More informations on How to use Bluetooth® leaflet SYL_1401_EN_BT

Professional micrometer

S_Mike PRO

STANDARD DELIVERY



903.1301



910.1301 including:
910.1502, 903.0300 and 903.0330



910.1304 including:
810.1506, 803.0306 and 805.6301

		903.1300	903.1301	910.1301	910.1304	910.1306
Measuring range	mm	0-102	0-102	150 / 0-30	150 / 0-30 / 12.5	0-102
Plastic case		●	-	-	●	●
Aluminium case		-	●	●	-	-
Output data		USB / RS 232			Bluetooth®	

STANDARD DELIVERY

MICROMETERS SETS

- 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

- 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 master 125 mm

Professional micrometer

S_Mike PRO

MODELS



Cylindrical Ø6.5mm Proximity /
Cylindrical Ø6.5mm Smart



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 Smart



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

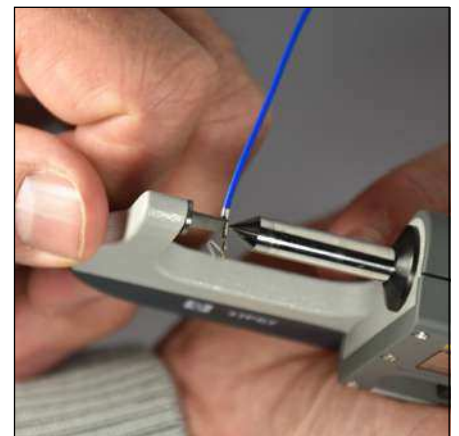
APPLICATIONS



Part measurement with a S_Mike PRO Disk



Length measurement of a lathed part



Cable crimping measurement

SMALL & MID-SIZE INSTRUMENTS

Sylvac's innovation and ingenuity are perfectly represented by the small and mid-size instruments described in this chapter.

You will find there, as a world première, the digital thickness gauge, the protractor, micrometer screws and much more.

Sylvac inductive measuring system (patented)

Data output

Power supply: Lithium battery 3V, Type CR 2032

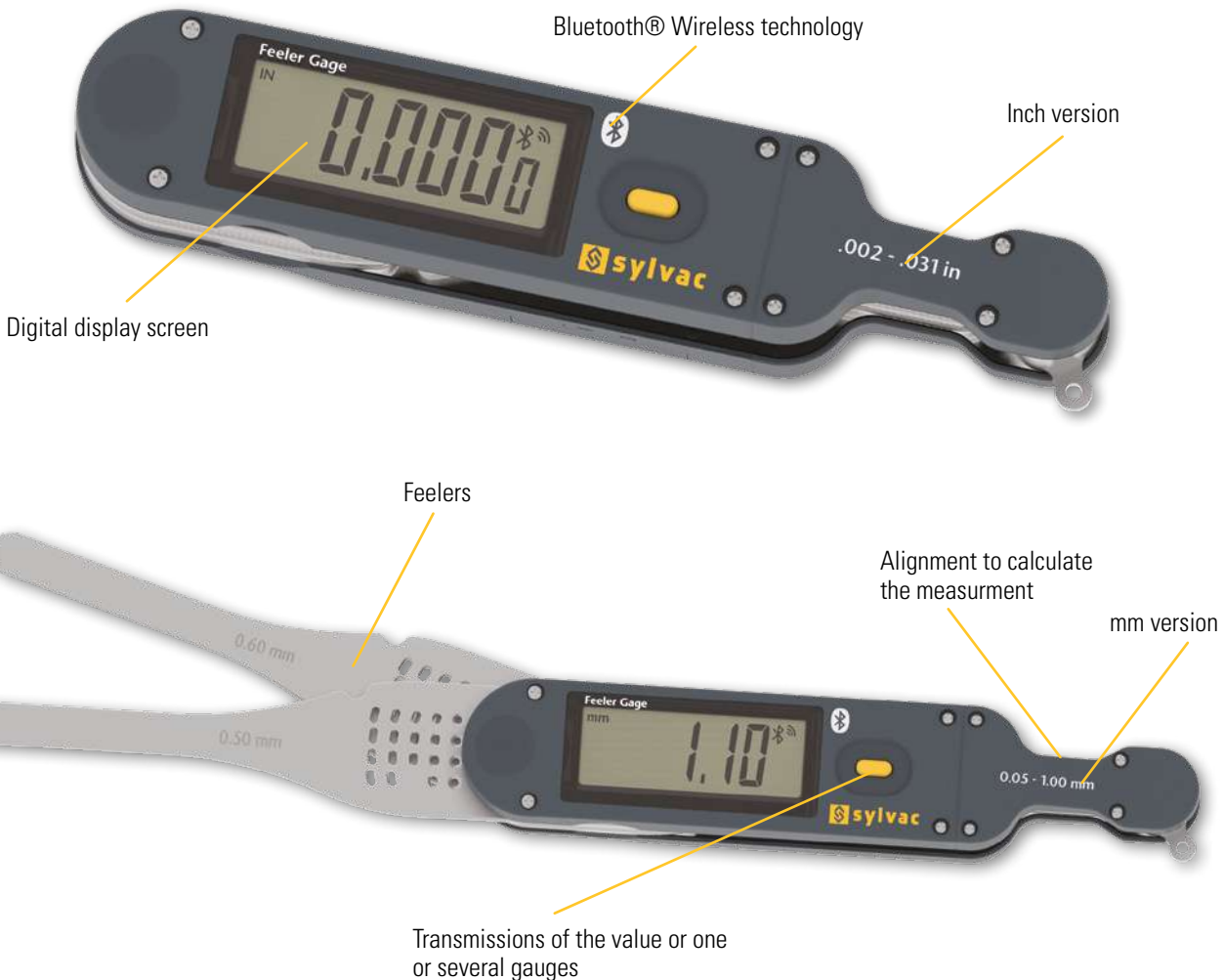


Digital thickness gauge

Feeler Gage Smart

DESCRIPTION

- Digital thickness gauge with **integrated Bluetooth® Wireless technology**
- **For gap measurement and setting with data transmission**
- Thickness: 0.05...1.00mm, 0.04...1.00mm ou 0.0020...0.0310inch
- First Sylvac instrument with HID technology
- Versions with 14, 19 or 20 gauges (according to model)
- Alignment of feelers in one crimp between the thumb and index finger
- Calculation and display of the stacking value of several gauges
- Instrument with a modern design that is easy to use



HID technology

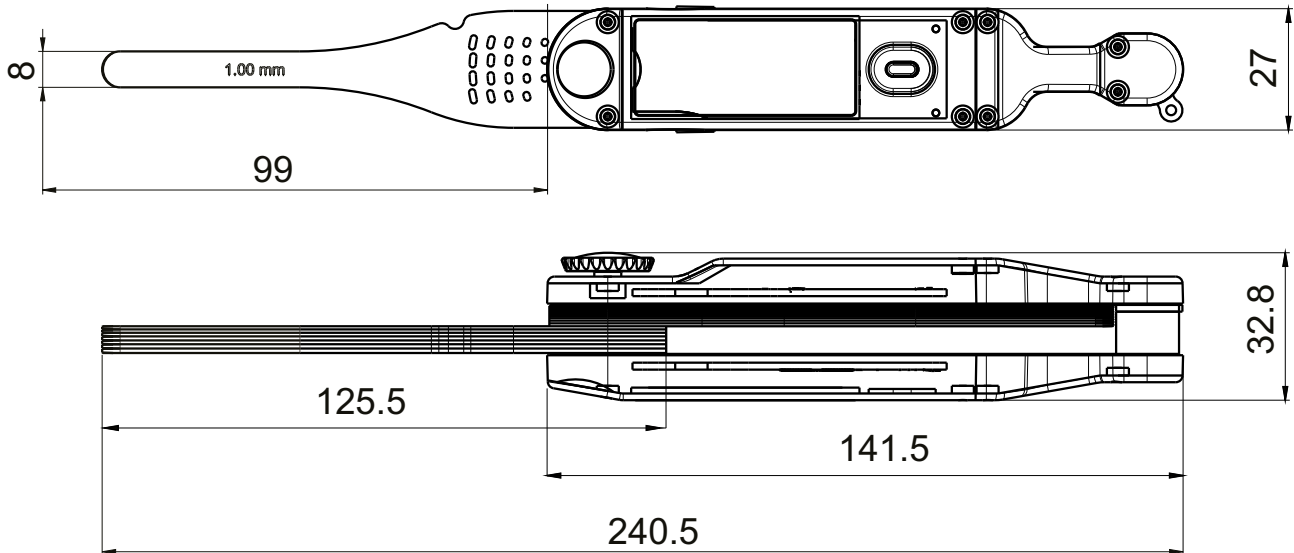
Transmission of data into any software or application, without dongle. Can be used with Microsoft (W7, 8, 10), Android or Apple.



Digital thickness gauge

Feeler Gage Smart

DIMENSIONAL DRAWING



Model 921.0100

The thickness may differ slightly for the other models according to the number of gauges.

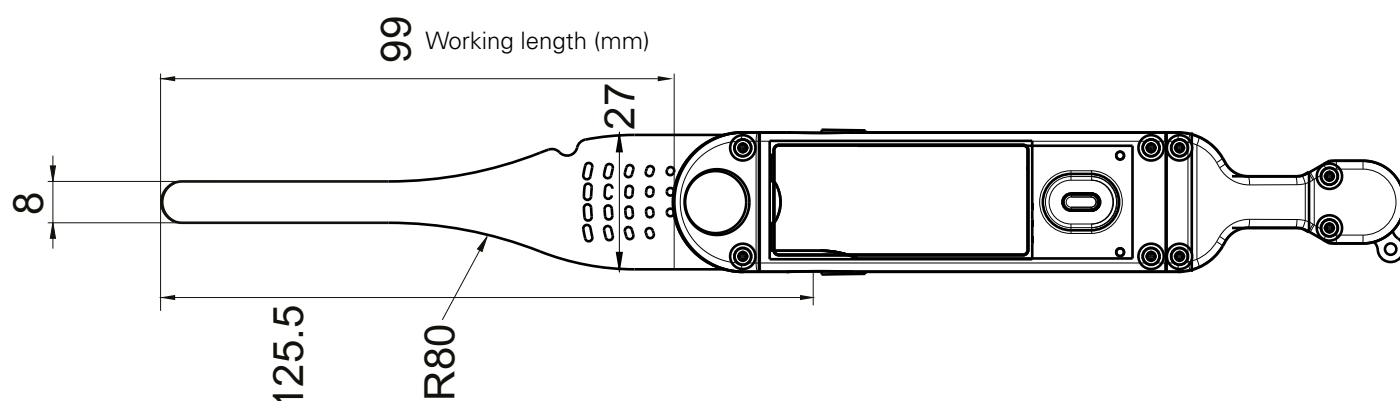
TECHNICAL SPECIFICATIONS

		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	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	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	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
Usable length	mm	99		
Thickness Tolerance Class according to DIN 2275		TC1		
Protection rating according to IEC 529		IP65		
Output data		Bluetooth® wireless technology*		
Number of feelers		20	19	14
Weight	g	280	224	212
Functions		Unit (mm/inch)		

Digital thickness gauge

Feeler Gage Smart

REPLACEMENT FEELERS



Model 921.0100

Metric Feeler Gage
0.05...1.00mm
20 blades

Model 921.0110

Metric Feeler Gage
0.04...1.00mm
19 blades

Model 921.0114

Imperial Feeler Gage
0.0020...0.0310in
14 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

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

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 gauge

Feeler Gage Smart

STANDARD DELIVERY

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

APPLICATIONS



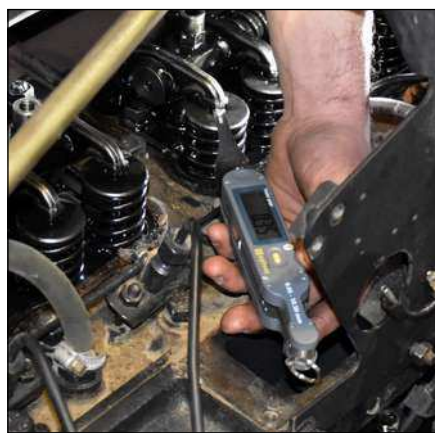
Gap measurement



Gap measurement



Gap setting



Valve adjustment

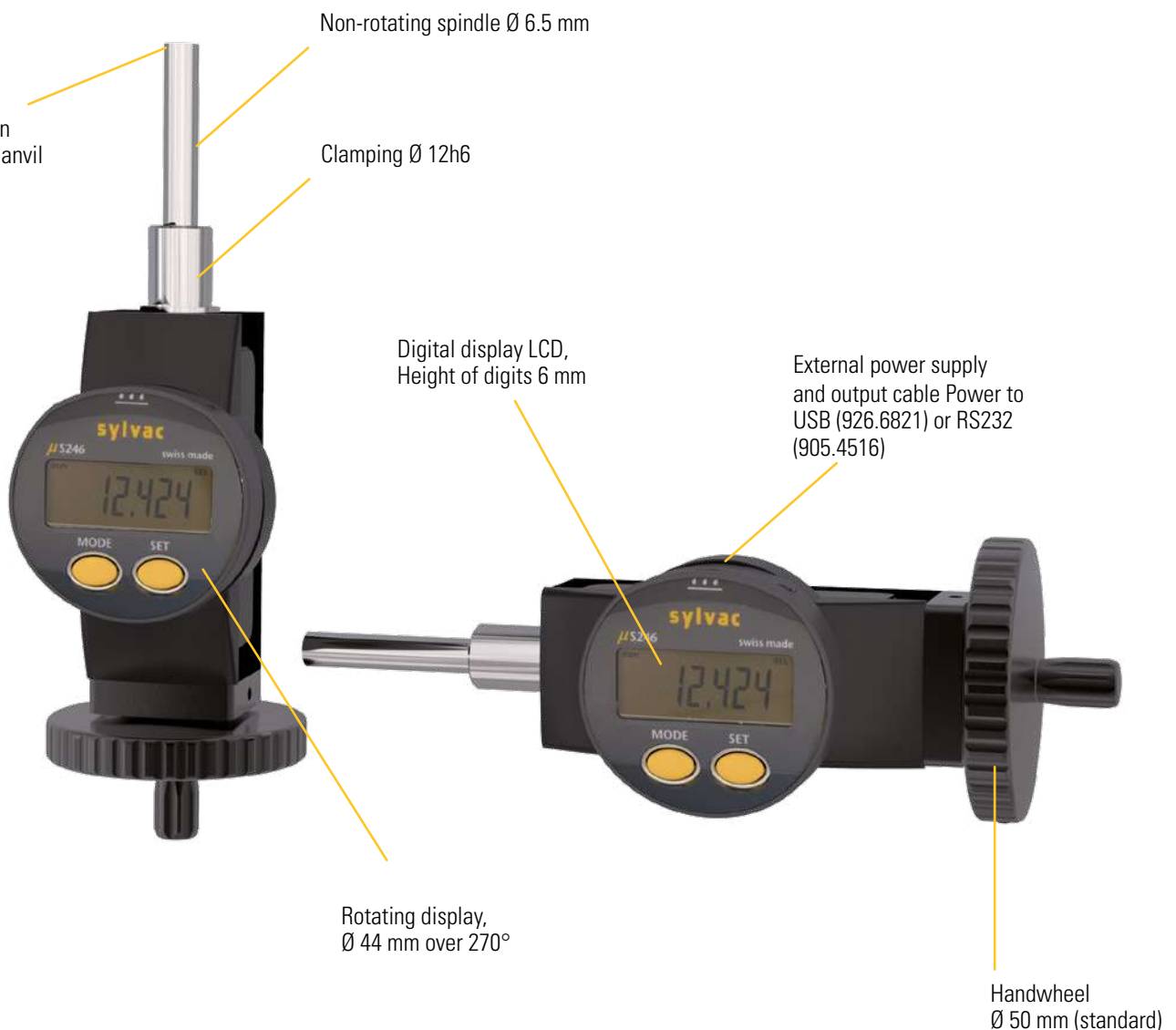


Data transmission via HID

Digital micrometer screws

DESCRIPTION

- Data output RS232, combined with external power supply
- Fine adjustment available (accessories)
- Horizontal and Vertical use (same type)
- Reduced dimensions (compact)
- Other handwheels on request



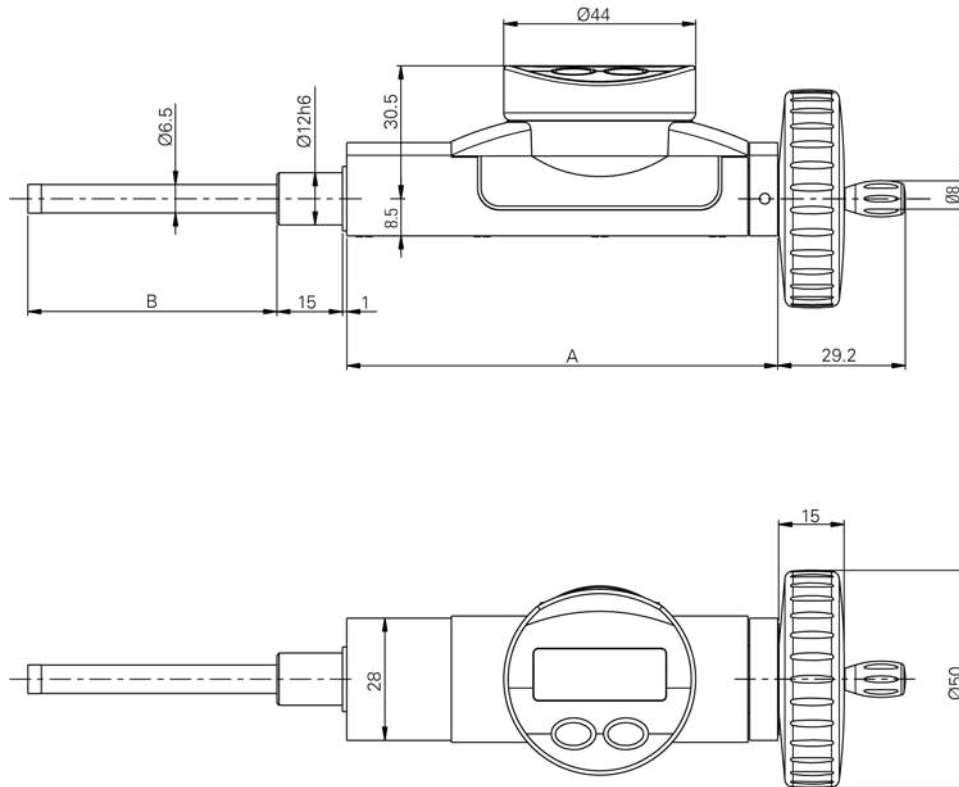
POWER 

 **SWISS**
MADE


WATER RESISTANT

Digital micrometer screws

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		852.2001	852.2011
Measuring range	mm	0-25	0-50
Max. Error	µm	5	8
Repeatability	µm	2	2
Resolution	mm	0.001	0.001
A	mm	74.5	98.5
B	mm	33.1	57.1
Output data		USB / RS232 ¹⁾	
Selection of measuring direction		•	
PRESET function		•	
Absolute or relative measurement		•	

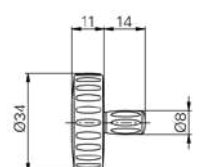
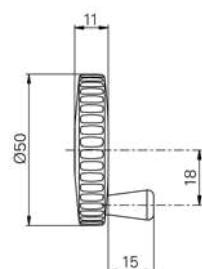
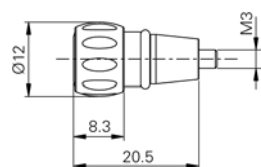
¹⁾ see cables chapter

Digital micrometer screws

STANDARD DELIVERY

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

S239 Smart

DESCRIPTION

- **Integrated Bluetooth® Wireless technology, Power & Proximity**

- Measuring range 1x360°, 2x180°, 4x90°
- Mechanical parts in stainless steel



E



S239 Smart

DIMENSIONAL DRAWING



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	0.01°
Max. rotation speed	1080° / sec
Protection rating according to IEC 529	IP54
Output data	Bluetooth® wireless technology* / USB / RS232
Functions	Unit (deg, rad or d-r), reference, Preset, Measurement direction, mode MIN/MAX/DELTA, tolerance display, switch off, keypad lock

¹⁾ see cables chapter

*** Up to 8 instruments connected per dongle #981.7100**
More informations on How to use Bluetooth® leaflet SYL 1401 EN BT

STANDARD DELIVERY

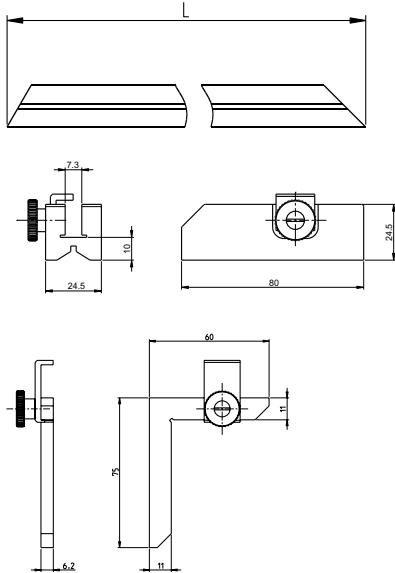
- Instrument according to technical specifications
- Wooden box ²⁾
- Scale 200 mm (820.2420)
- Lithium battery CR2032 included
- Instruction manual

²⁾ Fumigated, compatible ISPM 15 and NIMP 15

Protractor

S239 Smart

ACCESSORIES

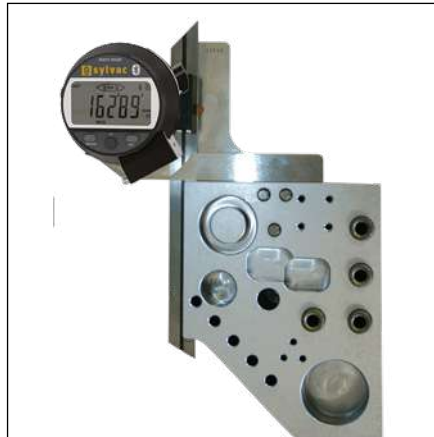


820.2420	Scale L 200 mm
820.2430	Scale L 300 mm
820.2450	Scale L 500 mm
820.2460	Stand for vertical application and small angular measurements
820.2461	Square for small angular measurements

APPLICATIONS



Measurement with accessory type 820.2460



Standard measurement



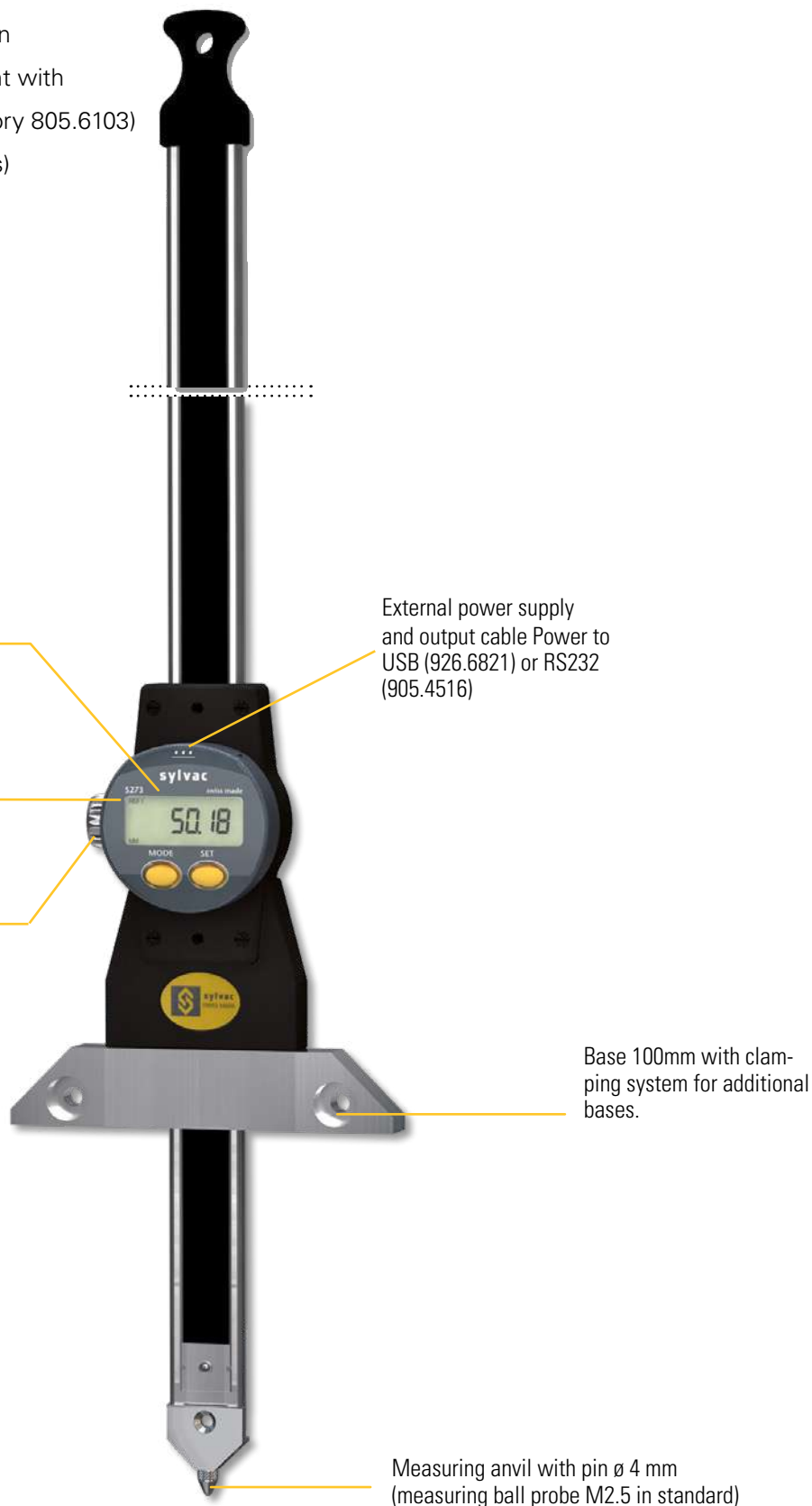
Measurement with accessory type 820.2461

Depth gauge

S_Depth PRO

DESCRIPTION

- PRESET function
- Automatic switching of measuring direction
- Setting of the «constant» for measurement with cylindrical or spherical anvils (with accessory 805.6103)
- Additional bases available (see accessories)



POWER

SWISS
MADE

SIS Smart
Inductive
System

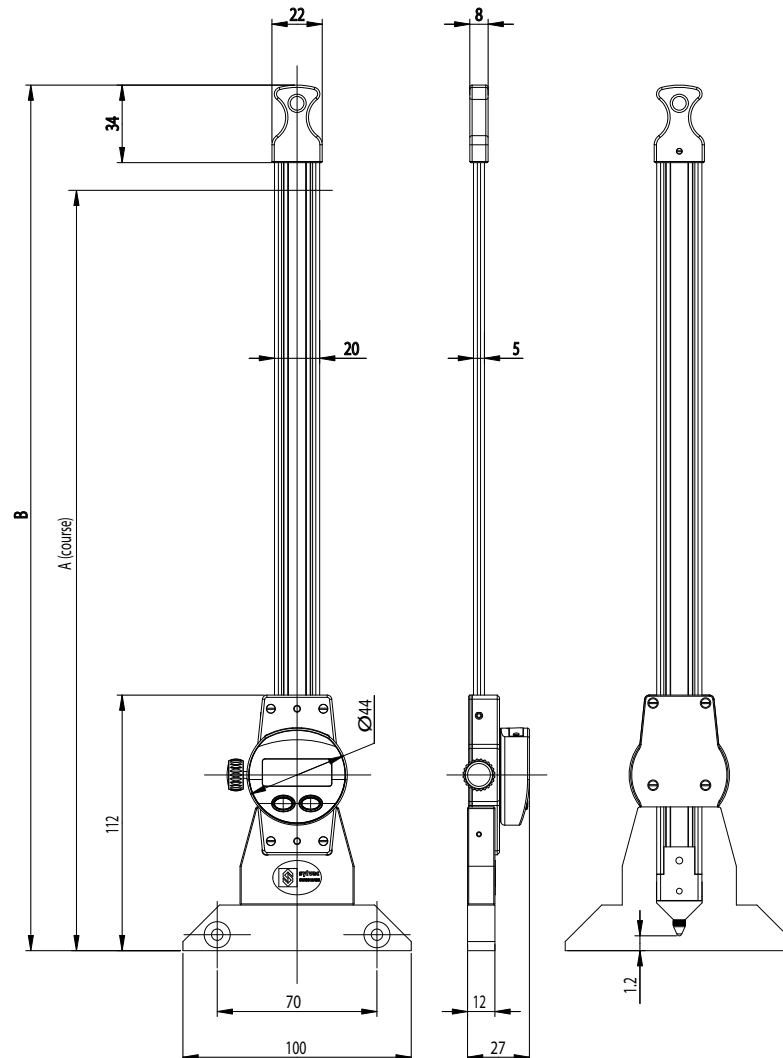
WATER RESISTANT

IP65

Depth gauge

S_Depth PRO

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		805.6005	805.6006
Measuring range	mm	300	600
Max. Error	µm	30	40
Repeatability ¹⁾	µm	10	10
A	mm	422	625
B	mm	483	773
Output data		USB / RS232 ²⁾	
2 References		●	
PRESET function		●	

¹⁾ ± 1 digit

²⁾ see cables chapter

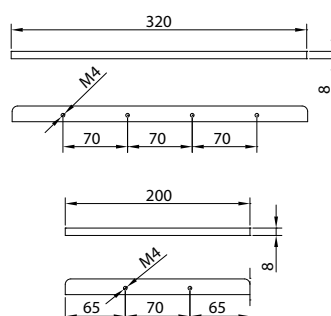
Depth gauge

S_Depth PRO

STANDARD DELIVERY

- Instrument according to technical specifications
- Lithium battery CR2032 included
- Instruction manual
- Ball probe M2.5 Ø2mm (805.6101)

COMPATIBLE ACCESSORIES

			Length	Thickness
E		812.2241	Additional base	200 mm
		812.2240	Additional base	320 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.



Depth measurement



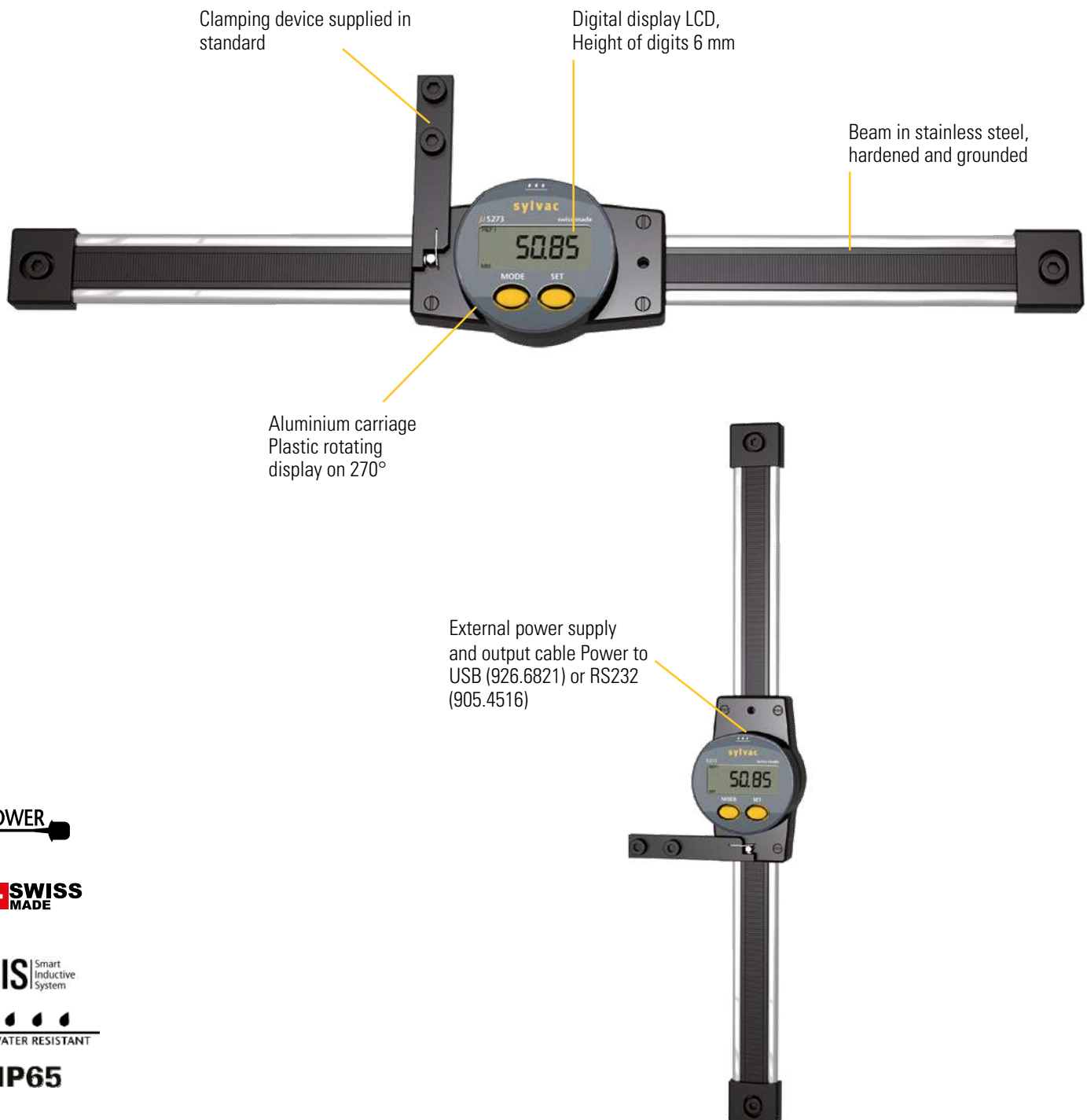
Depth measurement in a drilling with an additional base

Digital scales

S_Scale WORK

DESCRIPTION

- Max displacement speed: 2 m/sec
- RS232 or USB Data output
- External power supply by Power cable
- Easy to integrate in your projects



POWER 

 **SWISS**
MADE

SIS Smart
Inductive
System

 WATER RESISTANT

IP65

E

S_Scale WORK

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

		816.1015	816.1020	816.1030	816.1060
Measuring range	mm	150	200	300	600
Type		H / V	H / V	H / V	H / V
Max. Error	µm	20	20	30	30
Repeatability 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		USB / RS232 ²⁾			
Selection of measuring direction		●			
PRESET function		●			
2 references		●			

¹⁾ ± 1 digit

2) see cables chapter

INTERNAL MEASURING INSTRUMENTS

SYLVAC offers a wide range of internal measuring instruments consisting of mechanical measuring heads interchangeable at 2 or 3 points which guarantee rapid and precise measurements of 2 to 500mm depending on the type of instrument.

We also regularly propose special or customised solutions, such as threading, grooves, splines or deep bores.

Sylvac inductive measuring system (patented)

Bluetooth® Wireless technology for the entire range

Power supply: Lithium battery 3V, Type CR 2032

Operational temperature: +5 to +40°C

Repeatability: $\leq 2 \mu\text{m}$



Bore gauges

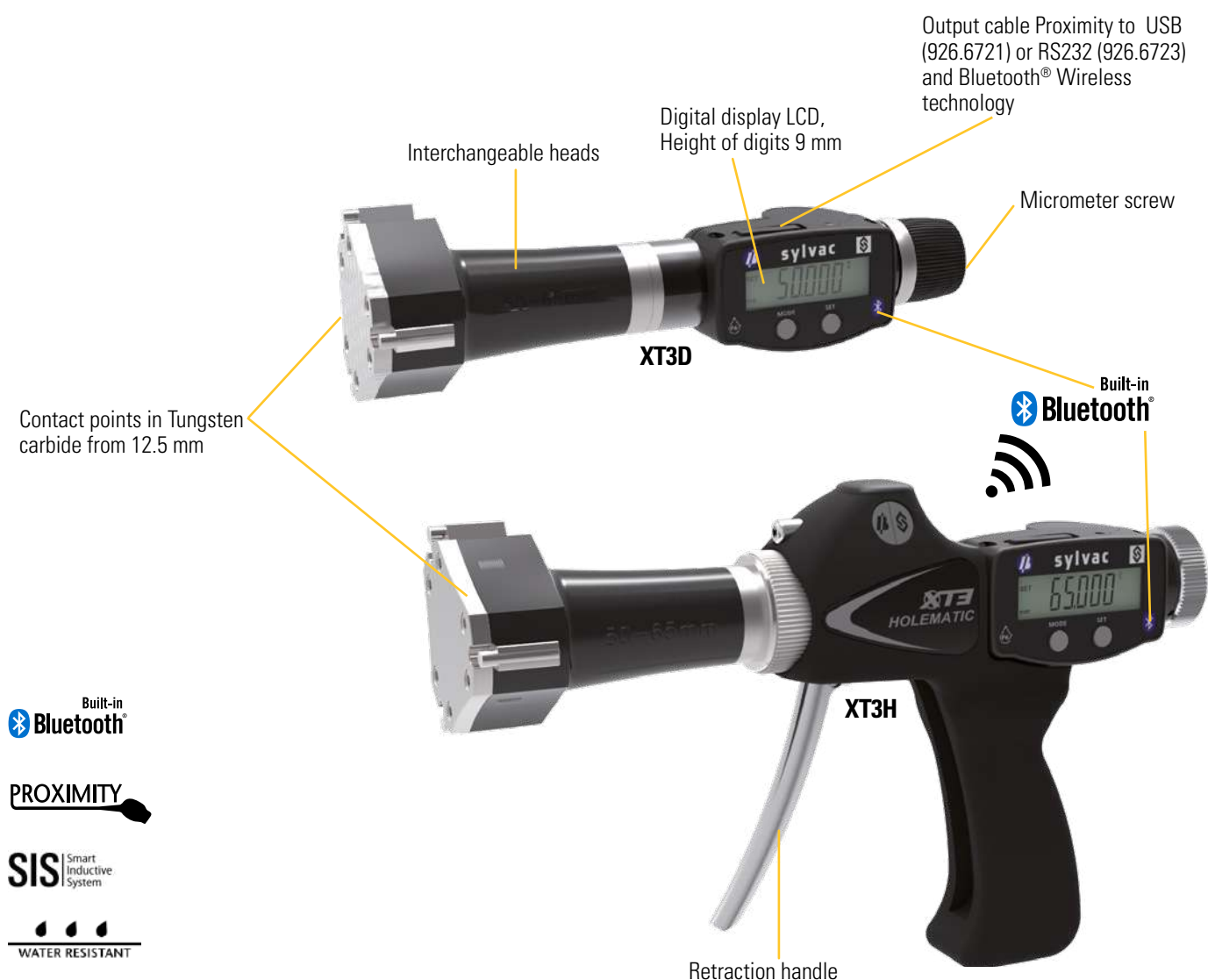
Xtreme 3

DESCRIPTION

SMART

- Instruments covering a large measuring range (2 - 300 mm)
- Blind bore measurement from 2 to 6 mm and from 12.5 mm
- Interchangeable measuring heads
- UKAS certificate included with all rings
- UKAS certificate included with each instrument
- Manufactured according to DIN863
- Memorization of 4 ring gauges values
- Water and coolant resistant, protection rating IP67 according to IEC 60529
- Programmable by PC
- S_Connect Proximity

F




* 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

F

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
\emptyset 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 BT 35M	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
\emptyset Incl. ring mm	12.5	20.0	20.0	35.0	35.0	65.0	65.0	80.0

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
\emptyset 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

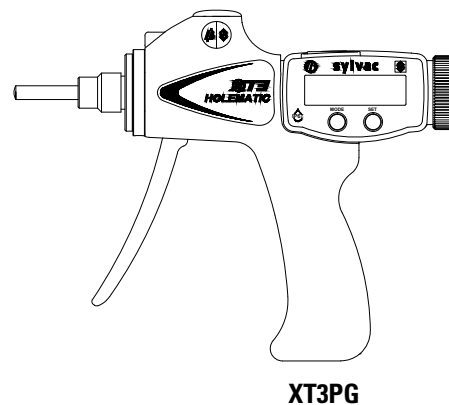
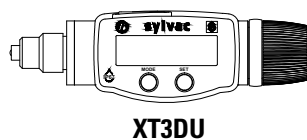
- Instrument according to technical specifications
- Wooden box (XT3D : from 150 mm = 2 box; XT3H : from 200 mm = 2 box) ¹⁾
- Rings according to technical specifications + UKAS certificate
- 1 x digital display XT3DU or XT3PG
- Lithium battery CR2032 included
- Instruction manual
- Calibration certificate

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



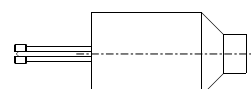
Bore gauges

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

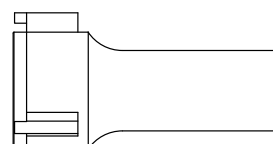
	953.2506	953.2507	953.2508	953.2509	953.2510
Meas. range mm	20-25	25-35	35-50	50-65	65-80
Type	XTHD20	XTHD25	XTHD35	XTHD50	XTHD65
Execution	3 points / TC	3 points / TC	3 points / TC	3 points / TC	3 points / TC

	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

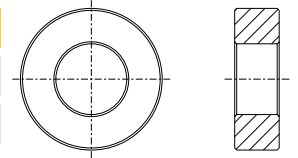
Bore gauges

Xtreme 3

TECHNICAL SPECIFICATIONS SETTING RINGS XTR

SMART

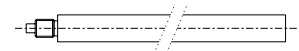
		953.2598	953.2599	953.2600	953.2601	953.2602	953.2603
Size	mm	2.5	4	5	8	12.5	20
Type		XTR2.5	XTR4	XTR5	XTR8	XTR12.5	XTR20



		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

APPLICATIONS



Pistol measuring system



Measuring with ratchet XTD system



Measuring with pistol XTH system

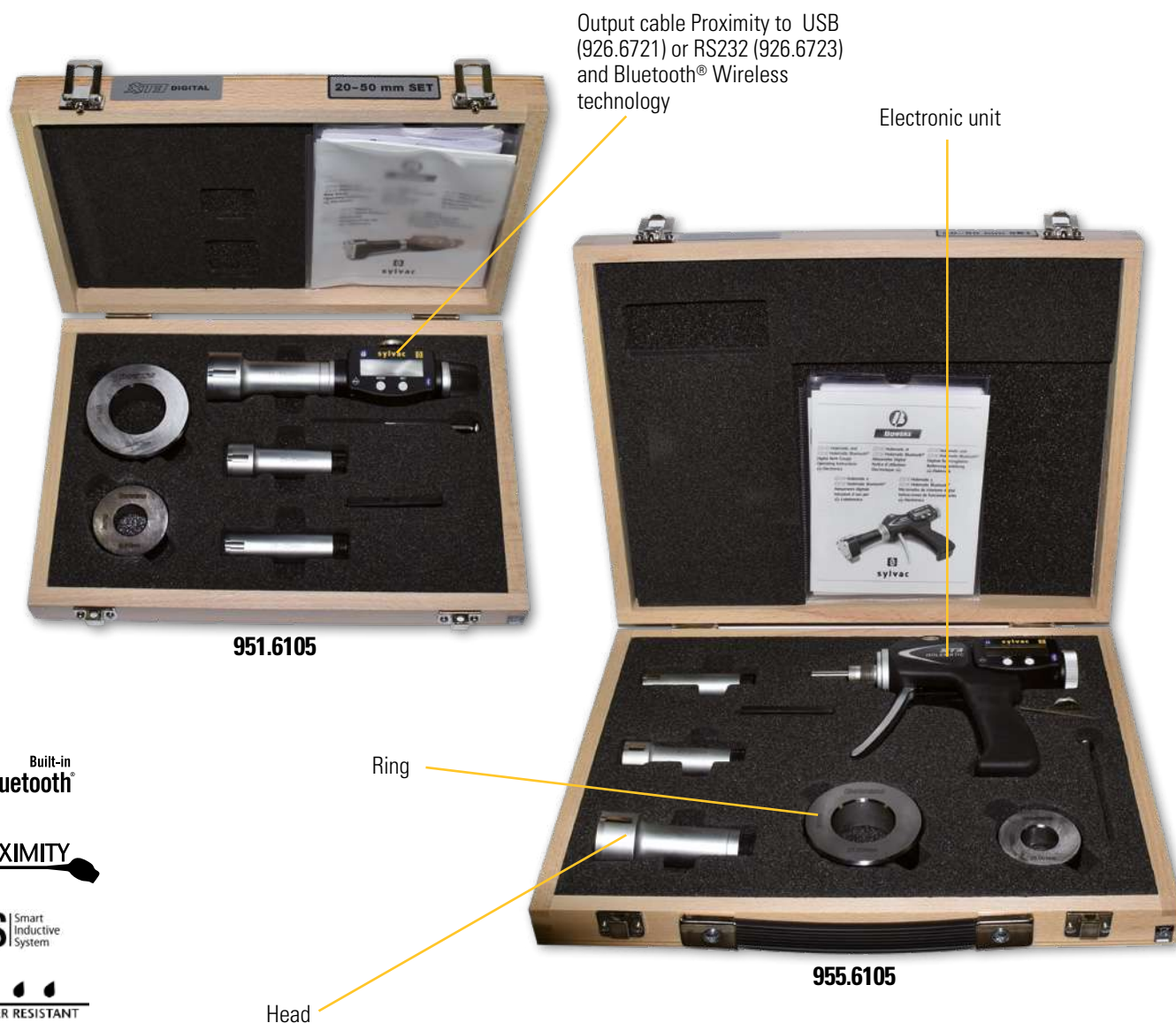
Bore gauges

Xtreme SETS

DESCRIPTION

SMART

- **Instruments sets** covering a large measuring range (2 - 200 mm)
- **Integrated *Bluetooth®* technology and Proximity**
- Blind bore measurement from 2 to 6 mm and from 12.5 mm
- Interchangeable measuring heads
- UKAS certificate included with all rings
- UKAS certificate included with each instrument
- Manufactured according to DIN863
- Memorization of 4 ring gauges values
- Water and coolant resistant, protection rating IP67 according to IEC 60529
- Programmable by PC



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 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 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 heads	3	2	2	4
Numb. of rings	2	1	1	2
Meas. Force	28N	32N	32N	32N

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 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 heads	2	2	5	6	4
Numb. of rings	1	1	3	4	2
Meas. Force	22N	22N	9N	19N	22N

F

High accuracy internal measurement

Ultima

DESCRIPTION

- Measuring range from 2 to 310 mm
- Resolution up to 0.0001 mm
- Mechanical repeatability : 1µm from 2 to 60 mm, 1.5µm from 60 to 210 mm and 2µm from 210 to 310 mm
- Robust construction designed for use by inspection and machine shop
- UKAS certificate supplied with each head
- UKAS certificate supplied with each setting ring.
- Rings manufactured according to DIN 2250 part 2 (standard)
- Blind bore measuring from 12 to 310 mm
- Compatible with all Sylvac digital display
- Special heads on request (threads, grooves, splines, slot width, etc...)

F



High accuracy internal measurement

Ultima

TECHNICAL SPECIFICATIONS OF MEASURING HEADS

		960.1006	960.1007	960.1008	960.1009	960.1010	960.1011	960.1012	960.1013
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

		960.1014	960.1015	960.1016	960.1017	960.1018	960.1019	960.1020	960.1021
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

		960.1022	960.1023	960.1024	960.1025	960.1026	960.1027	960.1028	960.1029
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

		960.1030	960.1031	960.1032	960.1033	960.1034	960.1035	960.1036	960.1037
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

		960.1038	960.1039	960.1040	960.1041	960.1042	960.1043	960.1044	960.1045
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

		960.1046	960.1047	960.1048
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

F

High accuracy internal measurement

Ultima

TECHNICAL SPECIFICATIONS SETS

	961.1102	961.1103	961.1104
Meas. range mm	2-6	6-10	10-20
Number of rings	3	1	2

	961.1107	961.1108	961.1109	961.1110
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 D50S (804.1050)
- 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

Capacitive 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 RS232



Two Ultima gauges connected with one unit
Sylvac D50S only



Adjustable depth stop (on request)



Set including 6 measuring heads, 3 master rings, 1 D50S, the handle and his probe, charging unit

Bore gauges

Special applications

DESCRIPTION

In spite of the fact that our range of interior measuring instruments is more complete, all the applications cannot be covered by the standard series. The illustrations below express the possibilities of special applications which we can carry out.

For instance, below some pictures of special applications :

Grooves and slots head



Spherical anvils head



Threads measuring head



Ball screw head



Built-in
Bluetooth

PROXIMITY

SIS Smart Inductive System

WATER RESISTANT

IP67

HEIGHT GAUGES

Hi_Cal, Hi_Gage ONE & Z5

Specially developed and optimized for use in production lines, HI_CAL offers a great efficiency thanks to its large screen which can simultaneously display diameters and centerlines.

Its principal advantages consist in its ease of use, reduced dimensions of its base, its great lightness, the compatibility of the accessories with the instruments of the previous generation and the two travel speeds which offer a great comfort during the measurement of small diameters.

Inductive Sylvac system (patented)

Automatic motorized probe (patented)

Data output RS232 – USB

mm/inch conversion



Height gauge

Hi_Gage ONE Smart

DESCRIPTION

- **First tracing and measuring height gauge with Bluetooth® technology integrated**
- **New blocking system of the carriage**
- Intuitive functions
- 400 and 600 mm versions
- Robust mechanics
- Proximity, Power and Bluetooth® data outputs
- Introduction of a constant value

Built-in
Bluetooth®

PROXIMITY

POWER

**SWISS
MADE**

Output cable Proximity
to USB (926.6721) or
RS232 (926.6723)

Fine adjustment
focusing knob

Locking nut

Large display

Bluetooth® technology

Self-locking rapid
transfer system

Quick clamping device
Ø 8 mm

Ergonomic cast iron base

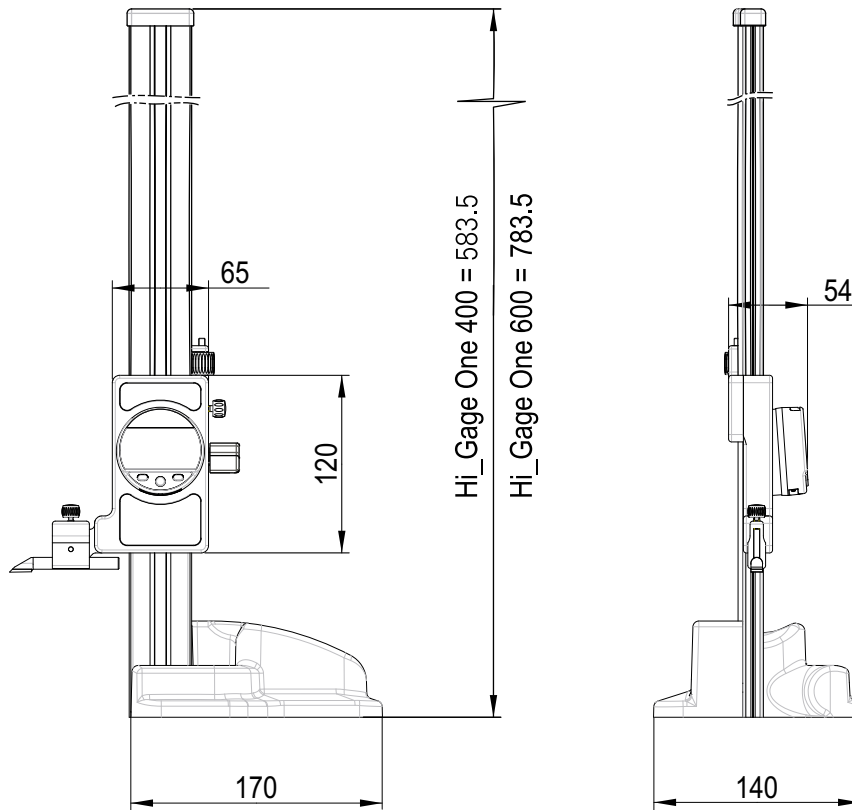
Hardened steel
guide

External power supply and
output cable Power to USB
(926.6821/926.6838) or
RS232 (905.4516/905.4538)

Height gauge

Hi_Gage ONE Smart

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

	840.0406	840.0606
Measurement range mm	400	600
Resolution mm	0.01	0.01
Max. error μm	40	50
Repeatability μm	10 ¹⁾	10 ¹⁾
2 references	•	•
PRESET	9999.99	
Selection of measuring direction	•	•
Smart Inductive Sensor (S.I.S)	•	•
Output data	Bluetooth® wireless technology* / RS232 / USB	

¹⁾ ± 1 digit

ACCESSORIES

	Description
840.9001	Ball probe $\varnothing 8$ mm
840.9002 ¹⁾	Tracing probe
905.2247	Clamping stem

¹⁾ supplied in standard



840.9001



840.9002



905.2247

Height gauge

Hi_Cal V2 Smart

DESCRIPTION

- **New mechanical construction**
- Great mobility and intuitive functions
- Measurement of internal and external diameters, centerlines, heights, thicknesses, depths, surfaces
- 150, 300 and 450 mm range
- **Data output Bluetooth®, USB and RS232**
- Extremely low and adjustable measuring force according to the probe
- No influence of the operator on the measurement results
- Battery life: 40 hours
- Probe constant value memorized even when switched off
- **Ergonomic motorized displacement paddle**

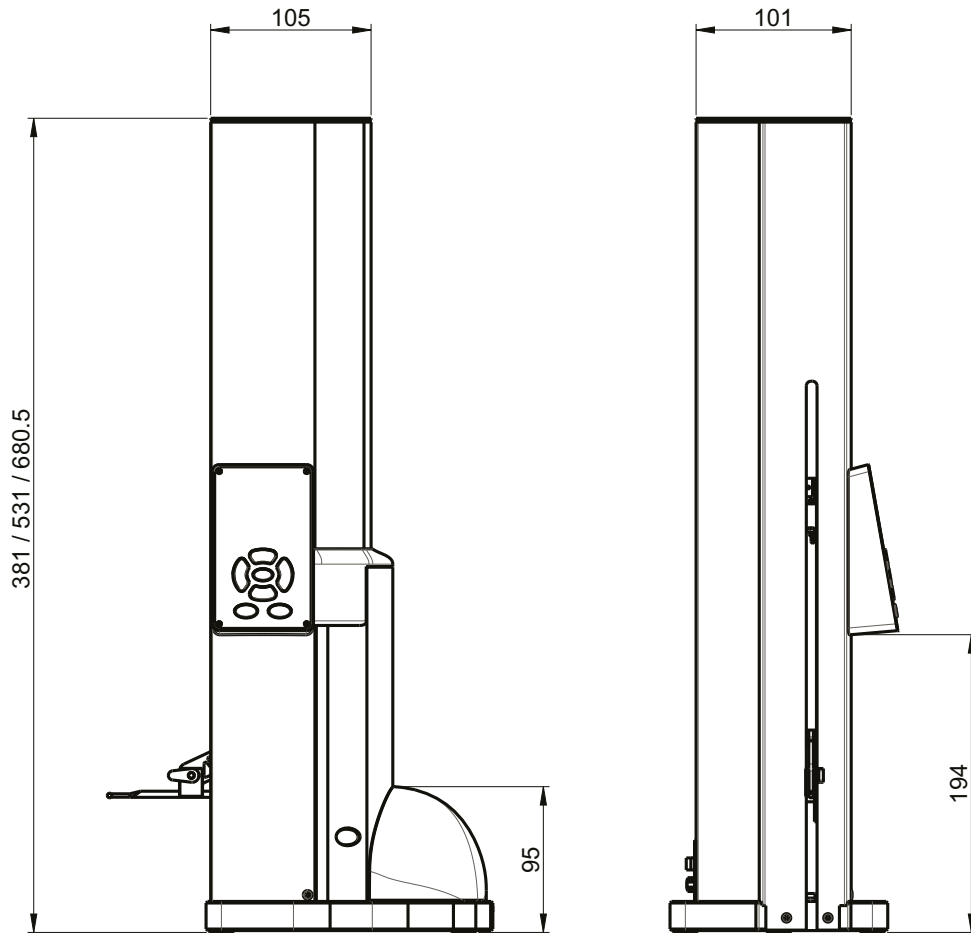


Switch on and measure!

Height gauge

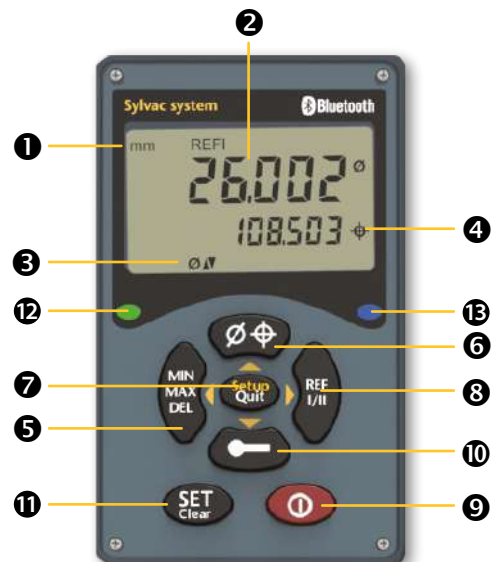
Hi_Cal V2 Smart

DIMENSIONAL DRAWINGS



DISPLAYS

- ❶ Measuring unit and actives reference
- ❷ Display of measuring value
- ❸ Active measuring mode
- ❹ Centerline display
- ❺ Dynamic measuring mode
- ❻ Diameter / height measurement
- ❼ Access to setting menu
- ❽ Selection of reference Ref I / Ref II
- ❾ ON / OFF Switch
- ❿ Ball probe constant
- ⓫ Validation / Initialization of min, max mode
- ⓬ Luminous indication of valide measurement
- ⓭ Luminous indication for turned on Bluetooth®



Height gauge

Hi_Cal V2 Smart

TECHNICAL SPECIFICATIONS

		830.0156	830.0306	830.0456
Measuring range	mm	150	300	450
Application range	mm	0 - 155	0 - 320	0 - 470
Max. Error	µm	2.5 + L / 175 ¹⁾		
Repeatability	µm	2		
Resolution	mm	0.01 / 0.001		
Velocity	mm/s	50 / 100		
Measuring force	N	0.2 - 0.3		
Self-contained use	h	>40		
Height	mm	379	529	679
Weight	kg	3.9	4.6	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		●		
2 types of progressive speed		●		

¹⁾ With standard probe, in laboratory conditions

²⁾ With adjustment of the measuring force

³⁾ See cables chapter

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 (904.4200¹⁾ / 01/03/04/05)
- Ruby ball probe Ø 3 mm
- Setting gauge
- Calibration certificate
- Instruction manual

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



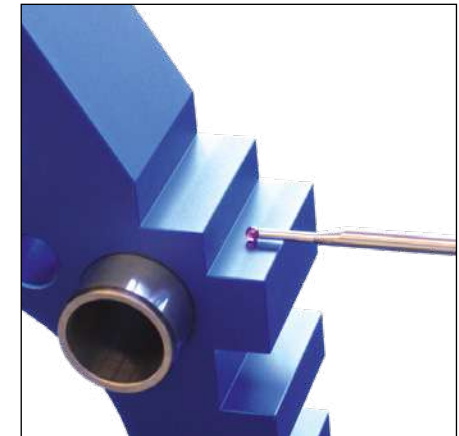
Internal measurement with ruby ball probe Ø 3 mm, 930.2101 (standard)



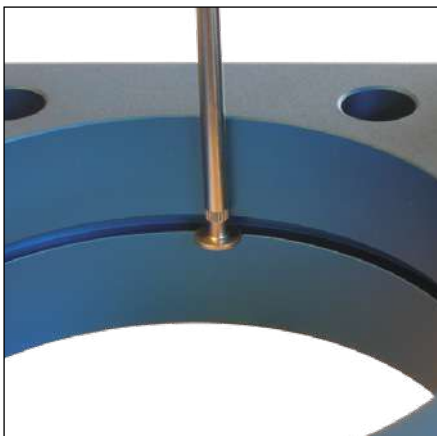
Internal groove measurement with accessories 930.2108, 930.2110 and 905.2207



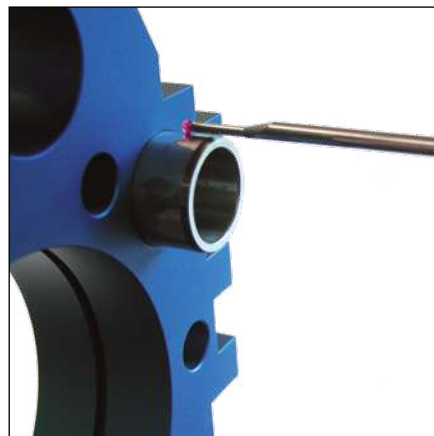
Taking the probe constant value with the setting bloc 930.2002 (standard)



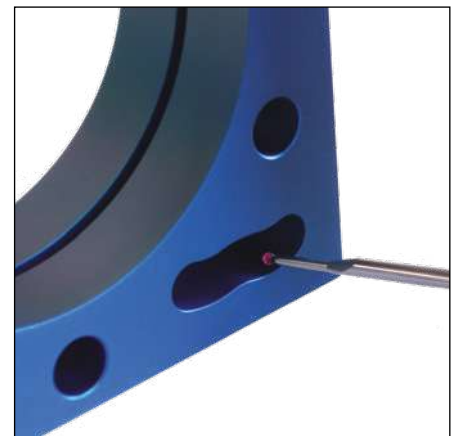
Heights and thicknesses measurements with the standard probe 930.2101



Internal groove measurement with accessories 930.2108, 930.2110 and 905.2205



External diameter measurement with the standard probe 930.2101

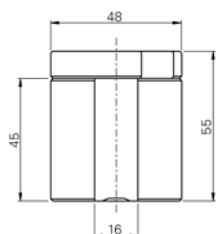
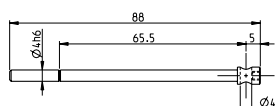
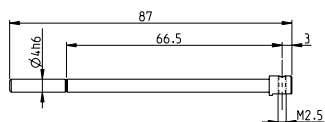
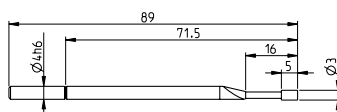
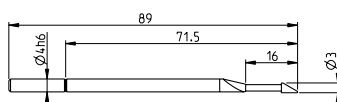
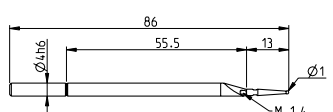
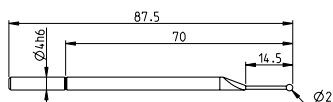
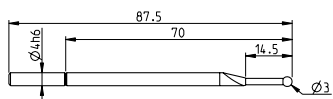


Min/Max/Delta measurements

Height gauge

Hi_Cal Smart

ACCESSORIES

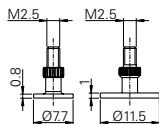
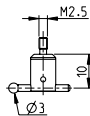
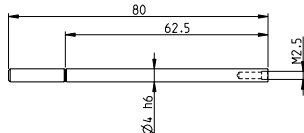
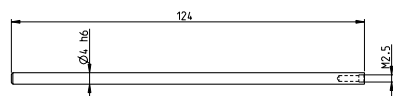
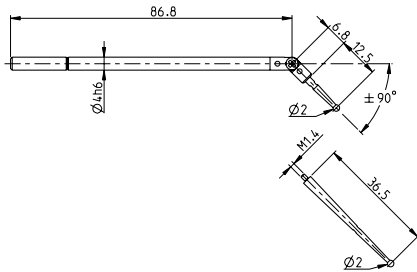


930.2101	Ruby ball probe Ø 3 mm
930.2103	Ruby ball probe Ø 2 mm
930.2104	Tungsten carbide ball probe Ø 1 mm
930.2105	Knife-edged measuring probe TC Ø 3 mm
930.2106	Cylindrical measuring probe TC Ø 3 mm
930.2107	Probe holder 90° M2.5
930.2108	Probe holder 90° Ø 4 mm
930.2002	Setting gauge
904.4200	Charging 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

Height gauge

Hi_Cal Smart

ACCESSORIES



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)

Height gauge

Hi_Cal Smart

ACCESSORIES



930.2111

Carbon probe-holder 200mm, Ø4mm



930.2112

Demonstration piece

Height gauge

Z5

DESCRIPTION

- Height gauge with measuring range 700mm
- Extremely easy to use
- Electronically adjustable measuring force
- Manual or motor-driven displacement
- Standard probes up to 300 mm
- Vast range of accessories
- All adjustments possible without tools
- Possibility of using a thermal printer (926.1830)
- Battery life: 12 hours
- RS232 and USB interfaces

mini-USB

RS232

**SWISS
MADE**

Easy balance
adjustment system

Interchangeable insert
holder and probe



Output cable RS232
to RS232 (926.5505) or
output cable mini-USB to
USB (926.6001)

Additional
probe holder

«Black Mask» display
with user-friendly
functions

Measuring carriage
displacement
handwheel

Horizontal displacement
handle with buttons for
functions and air cushion

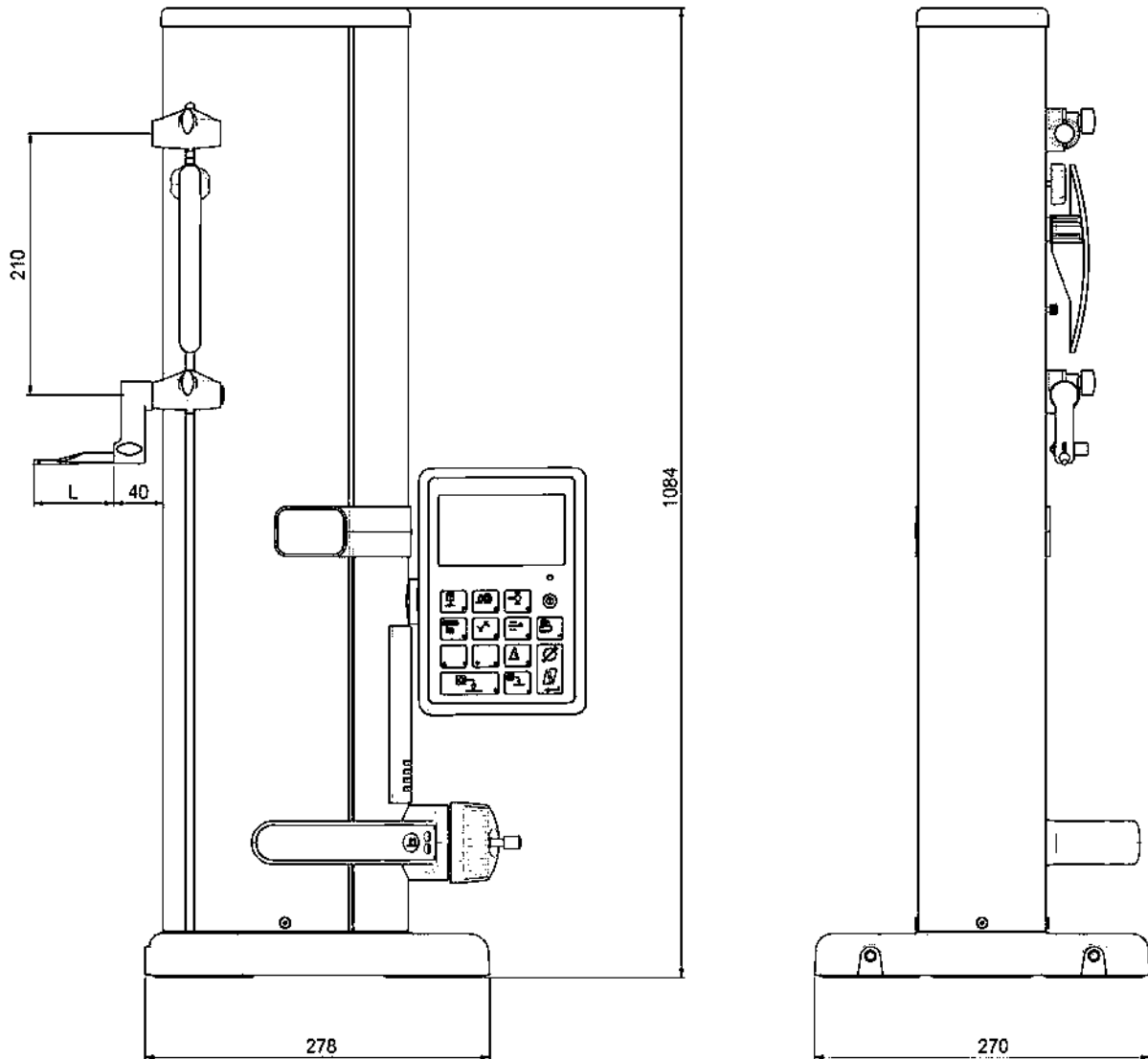
Cast iron base

Let's measure higher !

Height gauge

Z5

DIMENSIONAL DRAWINGS



STANDARD DELIVERY

- Instrument according to technical specifications
- Protection cover
- Charging set (904.4200¹⁾/01/03/04/05)
- Ruby ball probe Ø 4 mm
- Setting gauge
- Calibration certificate
- Instruction manual

¹⁾ according to country

Height gauge

Z5

TECHNICAL SPECIFICATIONS

		936.0700
Measuring range	mm	711
Measuring range with extension	mm	1023
Max. Error	µm	2.5 + L / 300
Repeatability R _{MPE}	µm	2
Frontal squareness deviation S _{MPE}	µm	8
Maximum resolution	mm	0.001
Measuring force	N	0.75 ÷ 1.5
Autonomy	h	12
Output data		USB / RS232
Air cushion		•
Weight	kg	24
Programmable by PC		•
Zero setting		•
Min / max / delta		•
PRESET function		•
Simultaneous display of diameters and centerlines		•
Thickness, chain and height measurements		•
Manual and motorised displacement		•

The above values have been determined according to ISO 13225, with the standard measuring insert.

APPLICATIONS



Thickness, chain and height measurements



Simultaneous display of diameters and centerlines



The motorisation guarantees a perfectly constant measuring force

For the accessories, refer to Trimos website : www.trimos.com

MEASURING PROBES AND DIGITAL DISPLAYS

Sylvac proposes three types of probe depending on the area of measurement applications.

Digital absolute probes:

- Ultra-high precision
- Direct USB output or M8

Capacitive probes:

- Measuring range up to 25mm
- High-precision measurement across the range of the probe
- Very good repeatability
- Reduction of intrinsic error if coupled to the SYLVAC display units

Inductive probes:

- Small footprint and very good repeatability
- Ideal for multi-dimension applications of 2 to 255 probes

SYLVAC display units connect a wide range of products such as Sylvac linear probes, linear rulers, handtools and digital indicators.

Absolute capacitive measuring system

Digital display units RS232 and USB

Operational temperature 0 to +50°C



Measuring probes

LISTING OF ALL MODELS

		INDUCTIVE				CAPACITIVE						
	TYPE	ORDER NUMBER										
		P2i	P2iP	P5i	P5iP	P5	P5BL	P5V	P5B	P5BVL	P5L	P5VL
RANGE		900.1101	900.1102	900.1111	900.1112	900.1001	900.1002	900.1003	900.1004	900.1007	900.1006	900.1008
	±2 mm	•	•									
	5 mm					•	•	•	•		•	•
	± 5 mm			•	•							
	10 mm											
	12.7 mm											
	25 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

* by accessories, see next pages

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Absolute digital measuring probes

P12D

DESCRIPTION

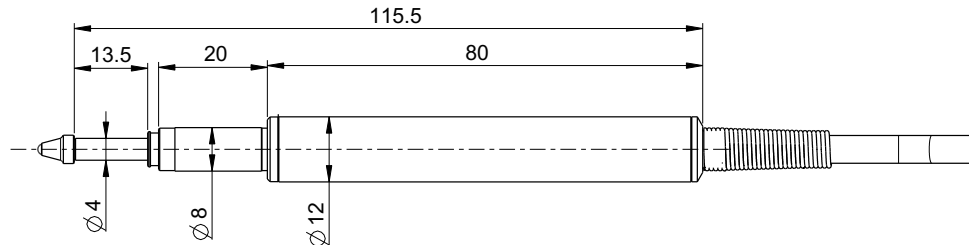
- Very high accuracy P12D probes Series, available in 3 different versions :
 - High Accuracy
 - Standard
 - Work : for workshop (details on the following pages)
- Measuring range 12.7mm (½in)
- Resolution up to 0.01 µm
- Repeatability up to 0.08 µm
- Absolute system with integrated correction, no more pairing needed
- Patented dual inductive and capacitive system
- Available in very low force version
- USB connector or M8 industrial connector



Absolute digital measuring probes

P12D

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

High resolution		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. Error	µm	0.6			
Repeatability	µm	0.08			
Nb measures/s		up to 100/s, according to configuration ⁵⁾			
Output data		USB		M8	
Cable output		Straight			

Standard resolution		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. Error	µm	1		
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

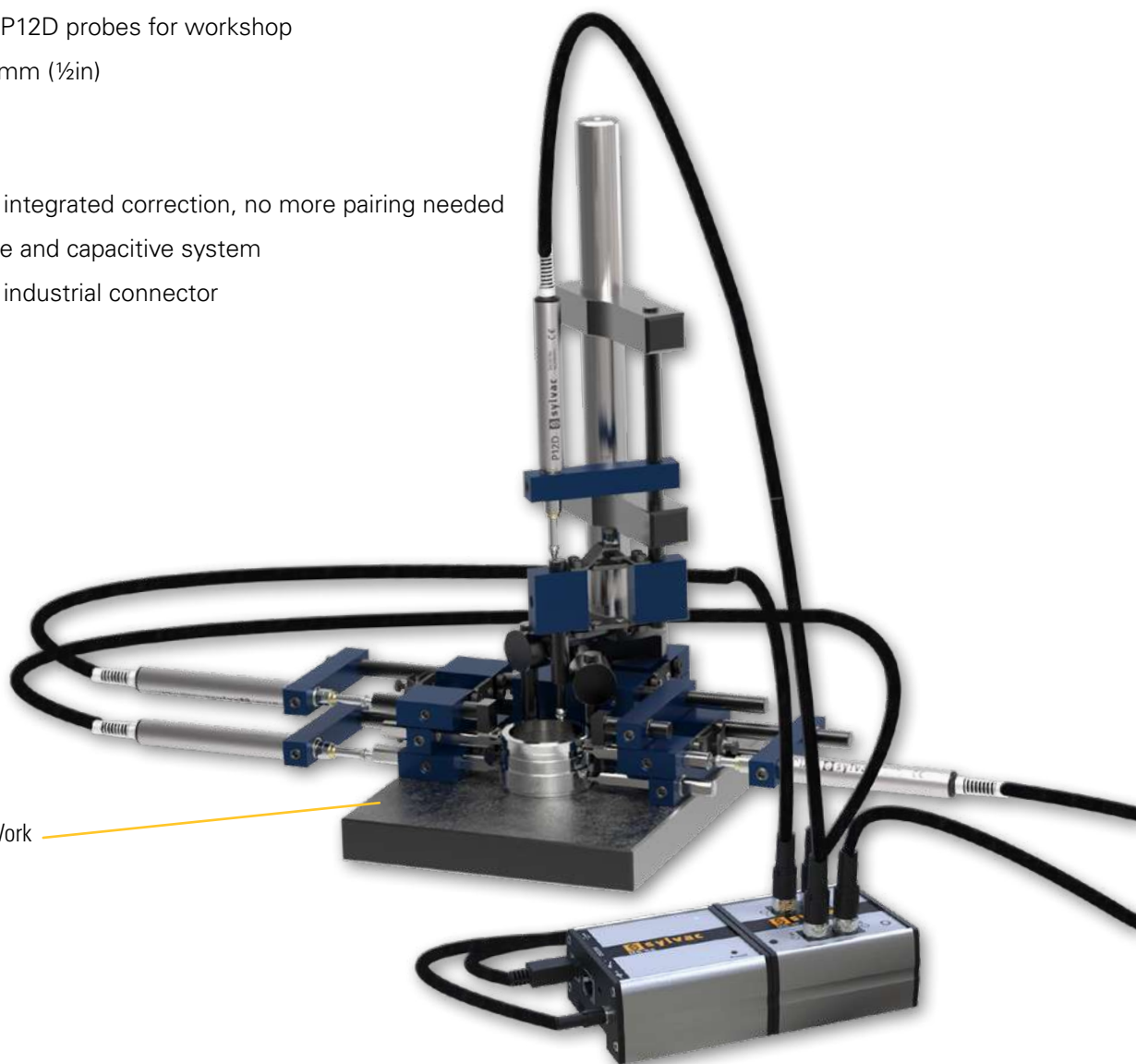
⁵⁾ depends on resolution and number of probes

P12D - special version

P12D WORK

DESCRIPTION

- Special version of our P12D probes for workshop
- Measuring range 12.7mm (½in)
- Resolution 0.1 µm
- Repeatability 0.2 µm
- Absolute system with integrated correction, no more pairing needed
- Patented dual inductive and capacitive system
- USB connector or M8 industrial connector



Jig with P12D Work

SWISS MADE **IP54**

Standard resolution		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. Error	µm	1.8	
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

Absolute digital measuring probes

P12D

STANDARD DELIVERY

- Probe according to technical specifications
- Cable 1.8 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)

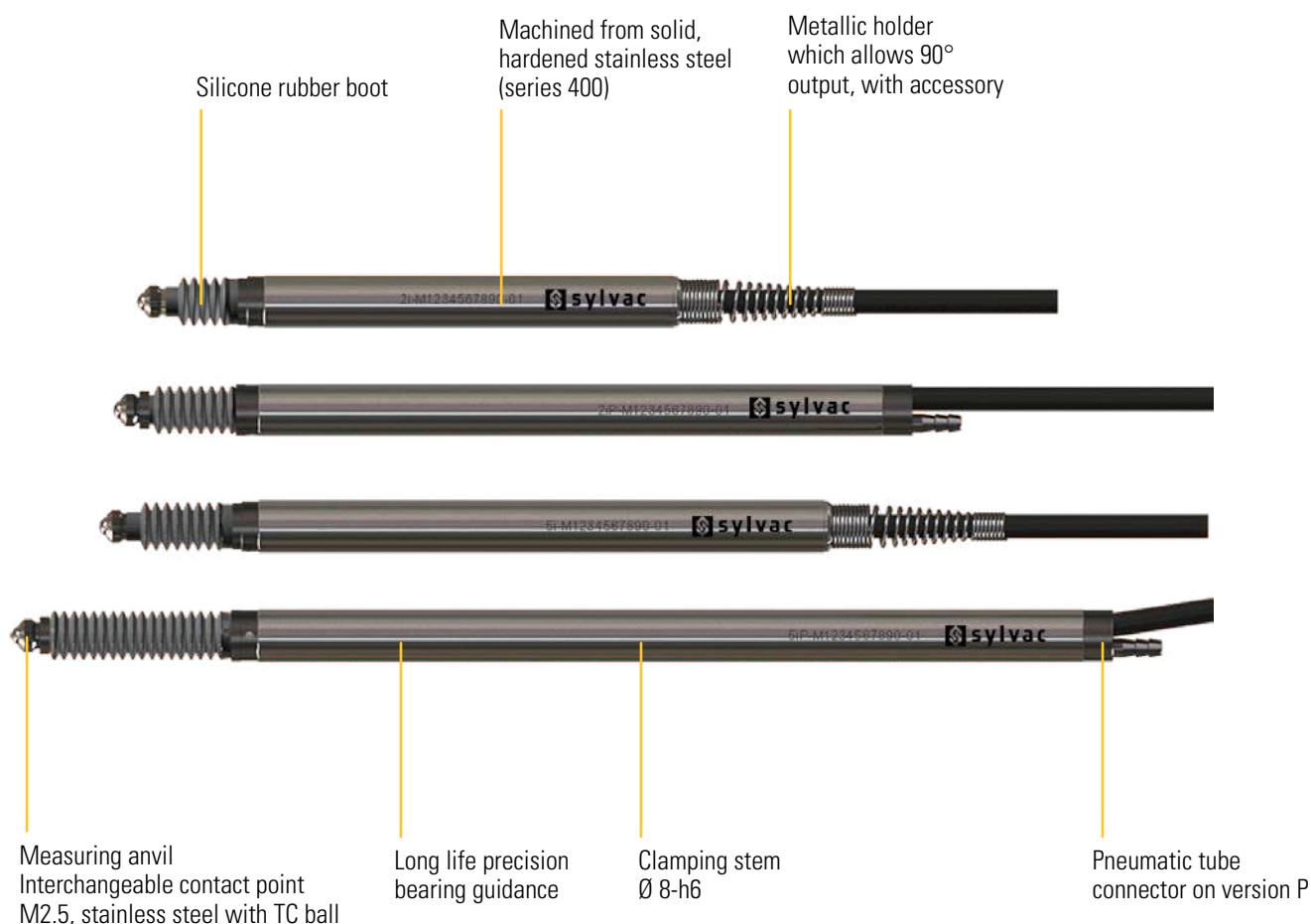


Probes P12D M8 connected to a D62S.

Inductive measuring probes

DESCRIPTION

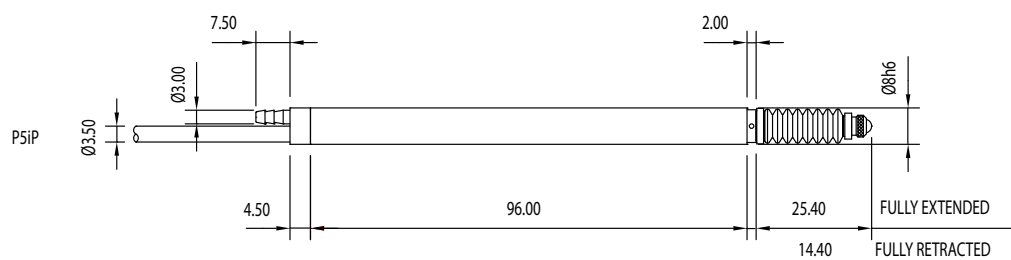
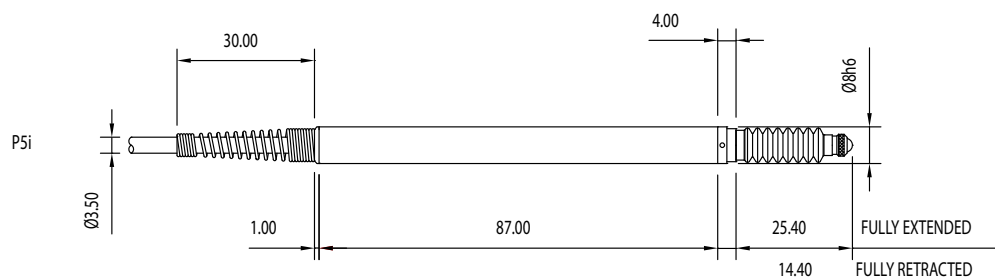
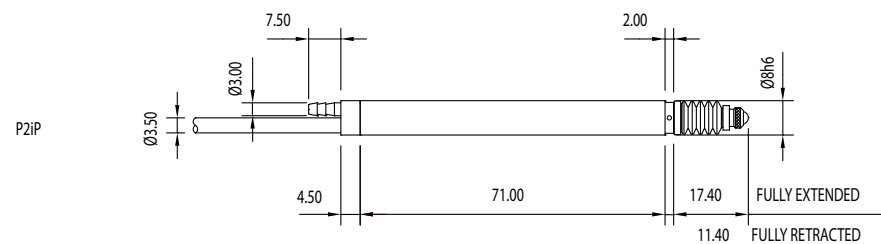
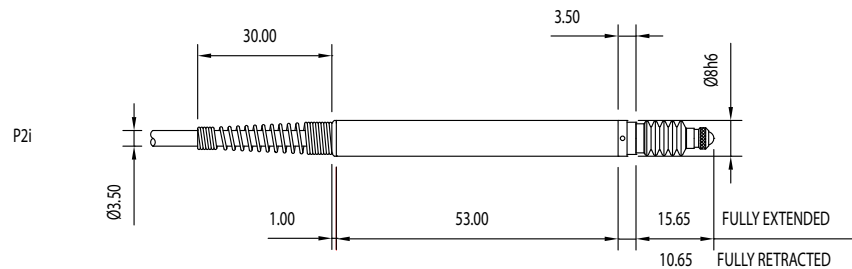
- Inductive measuring probes specially designed for measurement by comparison
- Available in 2 versions: spring push and pneumatic push
- Long life precision bearing guidance (tested up to 13 million cycles)
- Resolution <0.0001 mm
- Repeatability $0.15 \mu\text{m}$
- Measuring range ± 2 mm and ± 5 mm
- Compatible with D300SV2, D70i and D400S units through M-Bus multiplexer units
- High data speed
- Operating temperature $+5$ to $+80^{\circ}\text{C}$
- IP65 protected



IP65

Inductive measuring probes

DIMENSIONAL DRAWINGS



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		Digital : user selectable to <0.1µm			
Repeatability	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

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

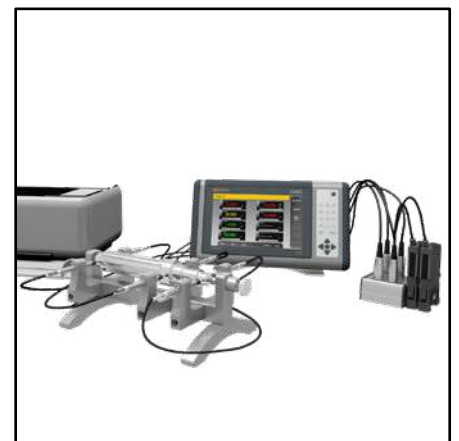
APPLICATIONS



Inductives probes connected to a D70I.



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

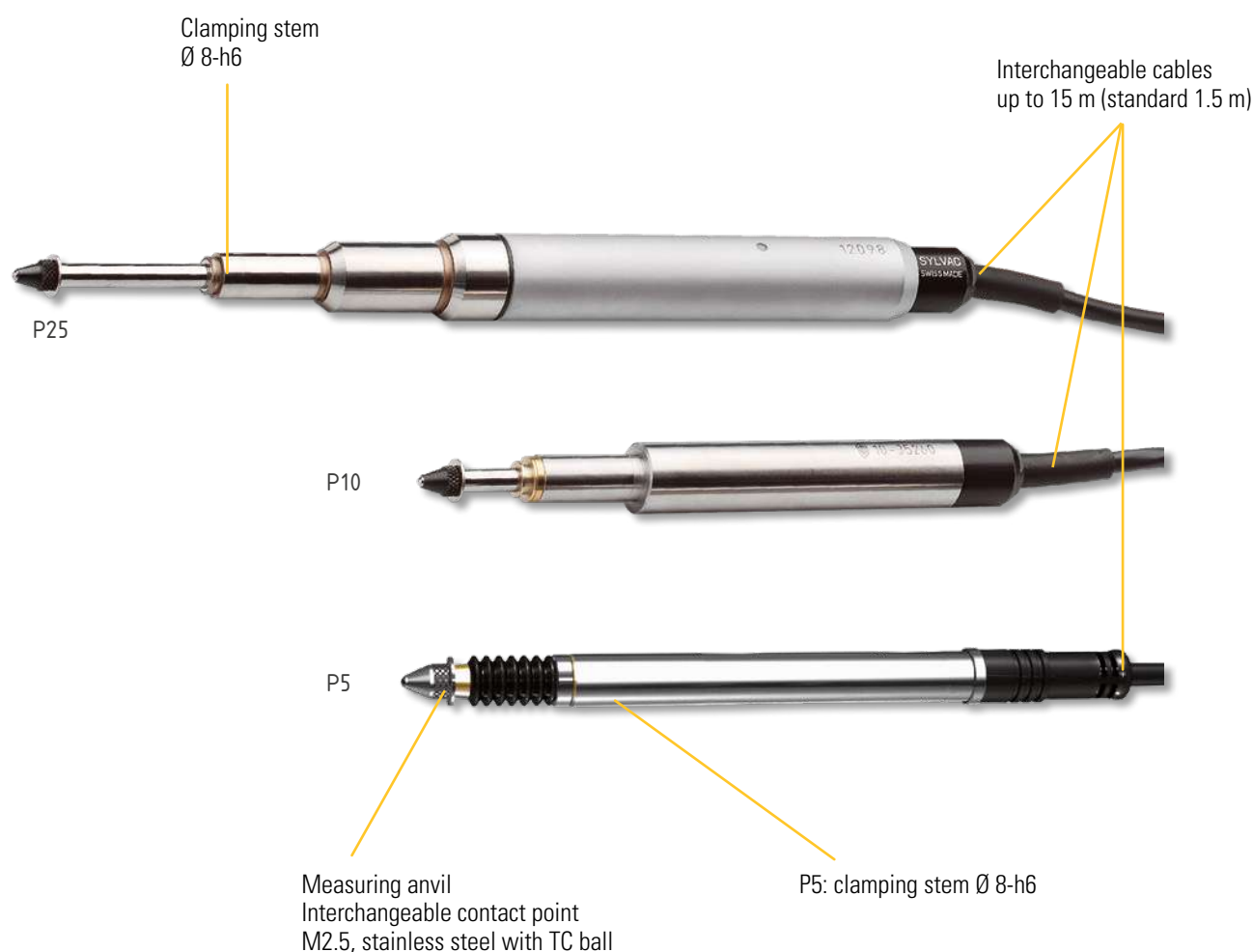


Inductives probes connected to a M-Bus modul coupled with D300S.

Capacitive measuring probes

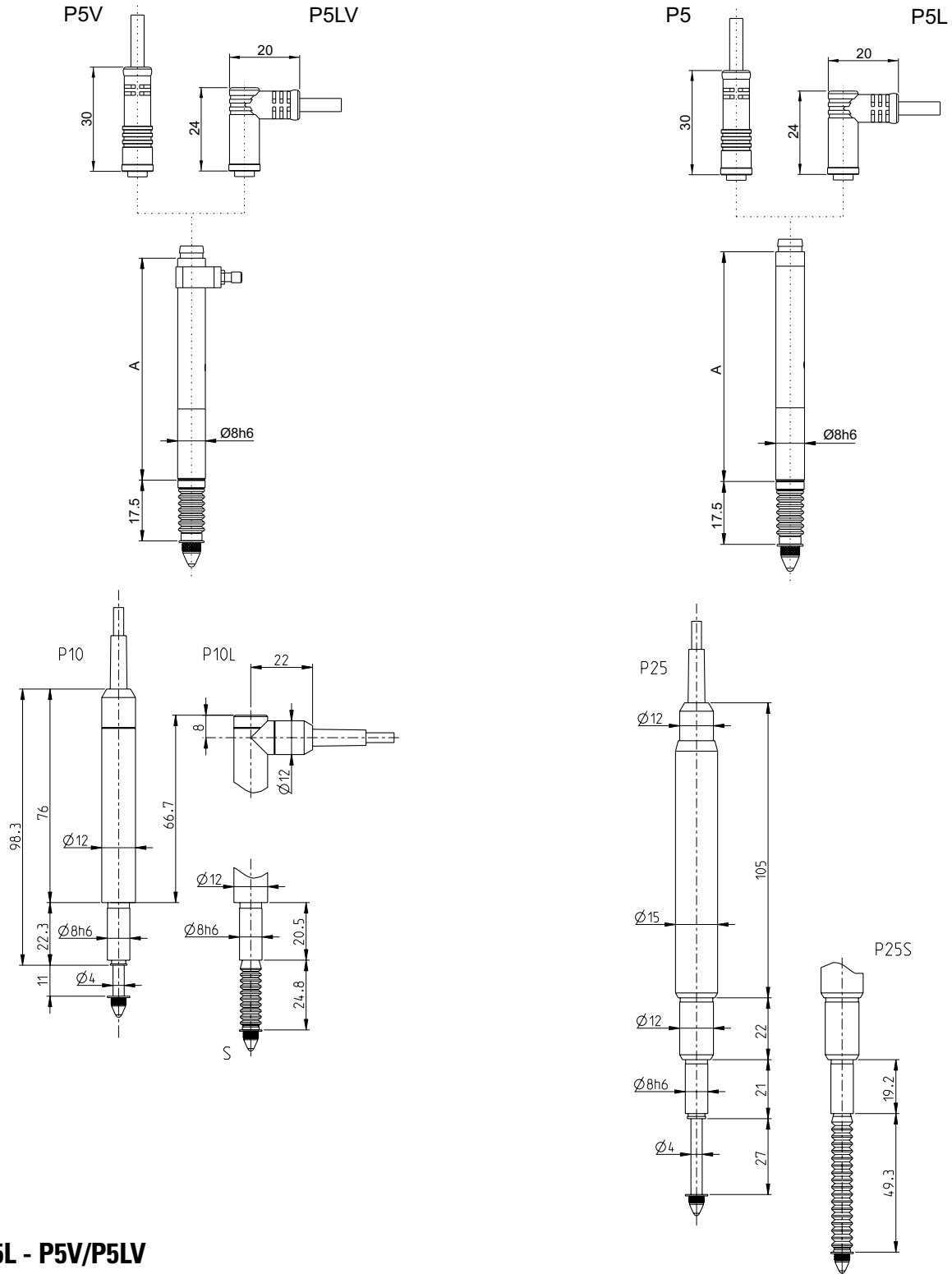
DESCRIPTION

- Capacitive absolute measuring probes, plunger type
- Resolution 0.0001 mm
- Measuring range from 5 to 25 mm
- Plain bearing or ball bearing, integrated vacuum lifter on P5
- Compatible with all Sylvac digital units
- Excellent linearity
- Interchangeable cables on most types



Capacitive measuring probes

DIMENSIONAL DRAWINGS



P5/P5L - P5V/P5LV

Guiding axis	Measure A
Plain bearing	72
Ball bearing	64

Capacitive measuring probes

TECHNICAL SPECIFICATIONS

		P5	P10	P25
Travel	mm	5	10	25
Pre-travel	mm	0.7	0.5	0.8
Max. Error ¹⁾	µm	1	1	1.2
Repeatability	µm	0.2	0.2	0.2
Moving mass	g	3.7	4.1	9.6

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

MEASURING FORCE

		P5	P5B	P10	P10S	P25	P25S
Standard	N	0.50-0.90	0.50-0.90	0.60-0.80	0.70-1.25	0.60-1.00	0.65-1.4
Minimum	N	0.20-0.25*	0.25-0.50	< 0.10	---	< 0.15	---
Low	N	0.30-0.65	0.30-0.65	0.20-0.25	---	0.20-0.30	---
High	N	0.80-1.40	---	0.70-1.50	---	0.70-1.60	---

Tolerance $\pm 20\%$, measuring probe in vertical position, outgoing spindle.

* without rubber boot

LIST OF REFERENCES

P5				P10				P25			
P5	900.1001	P5BV	900.1005	P10	900.1010	P10L LF	900.1014.91	P25	900.1025	P25S	900.1027
P5BL	900.1002	P5L	900.1006	P10 LF	900.1010.91						
P5V	900.1003	P5BVL	900.1007	P10S	900.1012	P10LS	900.1016				
P5B	900.1004	P5LV	900.1008	P10L	900.1014						

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

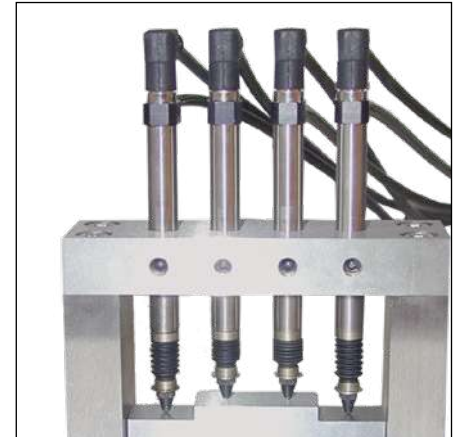
APPLICATIONS



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



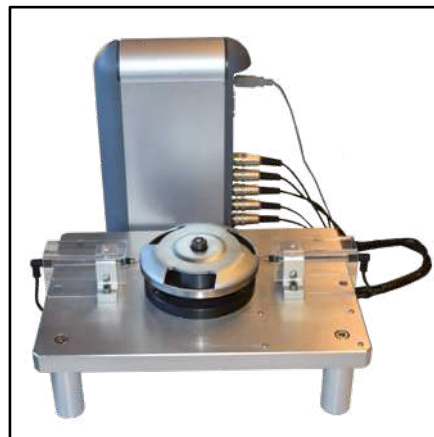
P5 probes connected to a D50S unit measuring the external diameter of a shaft



Combined probes for the measurement of several heights



Capacitive probes connected to a D70S.



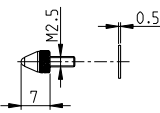
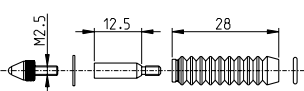
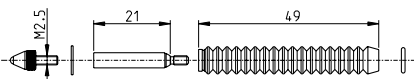
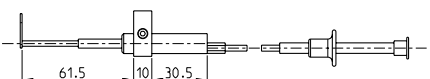
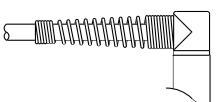
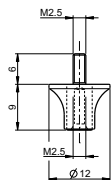
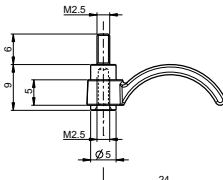
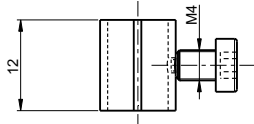
Capacitive probes connected to a D200S



Capacitive probes on a jig

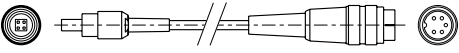
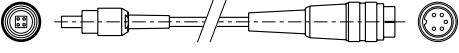
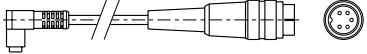
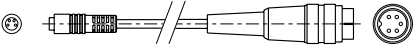
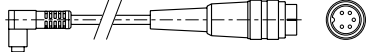
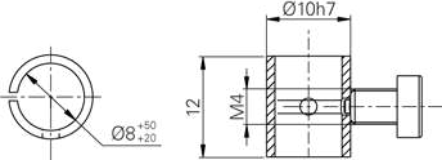
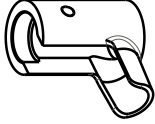
Measuring probes

ACCESSORIES

		P2i	P2iP	P5i	P5iP	P2	P5	P10	P25	P12D
	905.2204					•	•	•	•	•
	901.2003							•		
	901.2004								•	
	901.2005							•	•	•
	901.2012						•	•	•	
	901.2013						•	•	•	
	901.2014						•	•	•	
	901.5110	•		•						
	905.2225	•	•	•	•	•	•	•	•	•
	905.2224	•	•	•	•	•	•	•	•	•
	905.2231	•	•	•	•	•	•	•	•	•

Measuring probes







ACCESSORIES

			P2i	P2iP	P5i	P5iP	P2	P5	P10	P25	P12D
	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						•			
	905.2231	Adapting socket + screw	•	•	•	•	•	•	•	•	•
	801.5101	Bridge 90°									•

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

⁵⁾ depending on model, see details on pages D300S

⁶⁾ with modul 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 & MB-8D digimatic)

Digital display

TABLE OF CORRESPONDENCES

 D70I	 D70A	 D200S	 D300S^{*)}	 D302	 D302 a	 D304	 D304 a	 D400S
2 ⁱ⁾		8 ^{c)}	2 (4) ^{c)} 1 / 6	2 ^{c)}	2 ^{c)}	4 ^{c)}	4 ^{c)}	
1 ^{p)}	1 ^{p)}	1	2 ● ⁵⁾	1	1	1	1	1 ●
	2		● ⁷⁾					● ⁷⁾
		24 ²⁾	32 ³⁾ 6 ⁴⁾					99 ⁹⁾ 99 ⁹⁾ ●
●	●							●
●	●	●	●					●
				●	●	●	●	
● ¹⁰⁾	● ¹⁰⁾	●	●	●	●	●	●	●
		●	●					● ⁶⁾
					●		●	
●	●	●	●					●
●	●	●	●					●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
● ¹¹⁾	● ¹¹⁾		●					● ¹¹⁾
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●			● ¹²⁾
		●	●			● ⁸⁾	● ⁸⁾	●
●	●		●					●
			●					●
			●					●
		●	●					●
●	●	●	●					●
●	●	●	●					●
●		●	●	●	●	●	●	●
			●					

¹⁰⁾ Mini-USB

¹²⁾ Model 2018

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

Digital display

D50S

DESCRIPTION

- Digital display with 2 probe inputs
- Data output RS232C
- Power supply by external unit
- Light and compact
- Ease of use
- Correction of linearity on both channels (D50S PRO)

Resolution up to 0.0001 mm

Great clear and luminous display

Combination of channels A+B; A-B



Direct functions

Feet

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

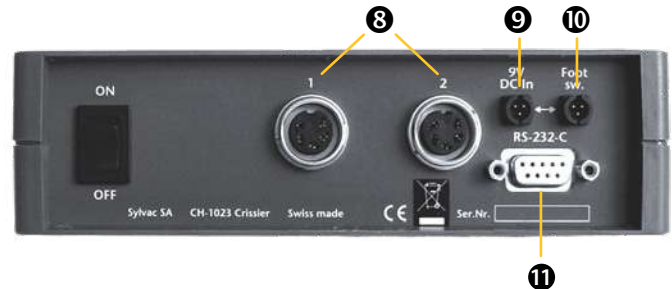
D50S

DISPLAY

- ❶ Conversion mm/inch
- ❷ Selection of resolution
- ❸ Selection of measuring direction
- ❹ REL and ABS measurement
- ❺ PRESET function
- ❻ Data sending
- ❼ Selection of measuring mode: channel 1 ; channel 2 ; channel 1-2 ; channel 1+2



- ❽ Probe inputs
- ❾ Power supply connection
- ❿ External contact connection
- ⓫ RS232 input/output



TECHNICAL SPECIFICATIONS

		804.1050	804.1060
Type		D50S	D50S PRO
Max. Error	μm	P2 : 1.5 / P5 : 1.6 / P10 : 1.6 / P25 : 1.9	P2 : 0.5 / P5 : 0.6 / P10 : 0.6 / P25 : 0.8
Repeatability	μm	P2 : 0.2 / P5 : 0.2 / P10 : 0.2 / P25 : 0.2	P2 : 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

APPLICATIONS



Measuring a shaft with 2 probes (A+B)



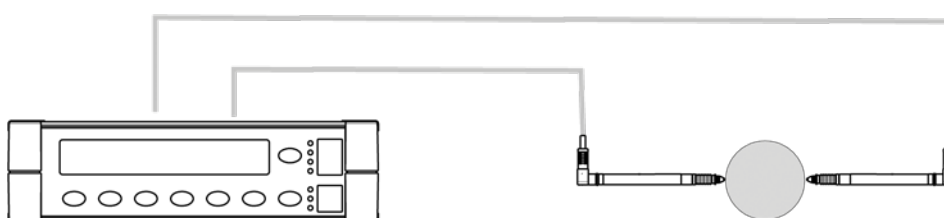
PS15 with connected to a D50S



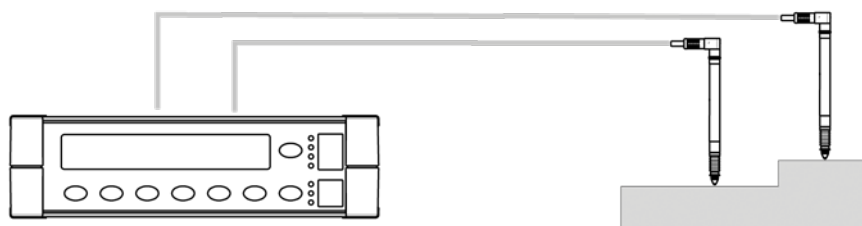
Simple measurement with one probe

COMBINATIONS OF PROBES

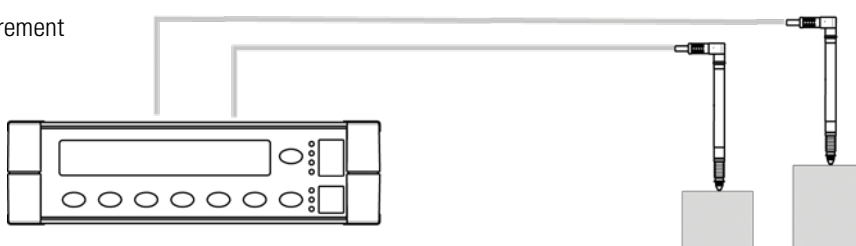
Diameter = 1+2



Difference = 1-2



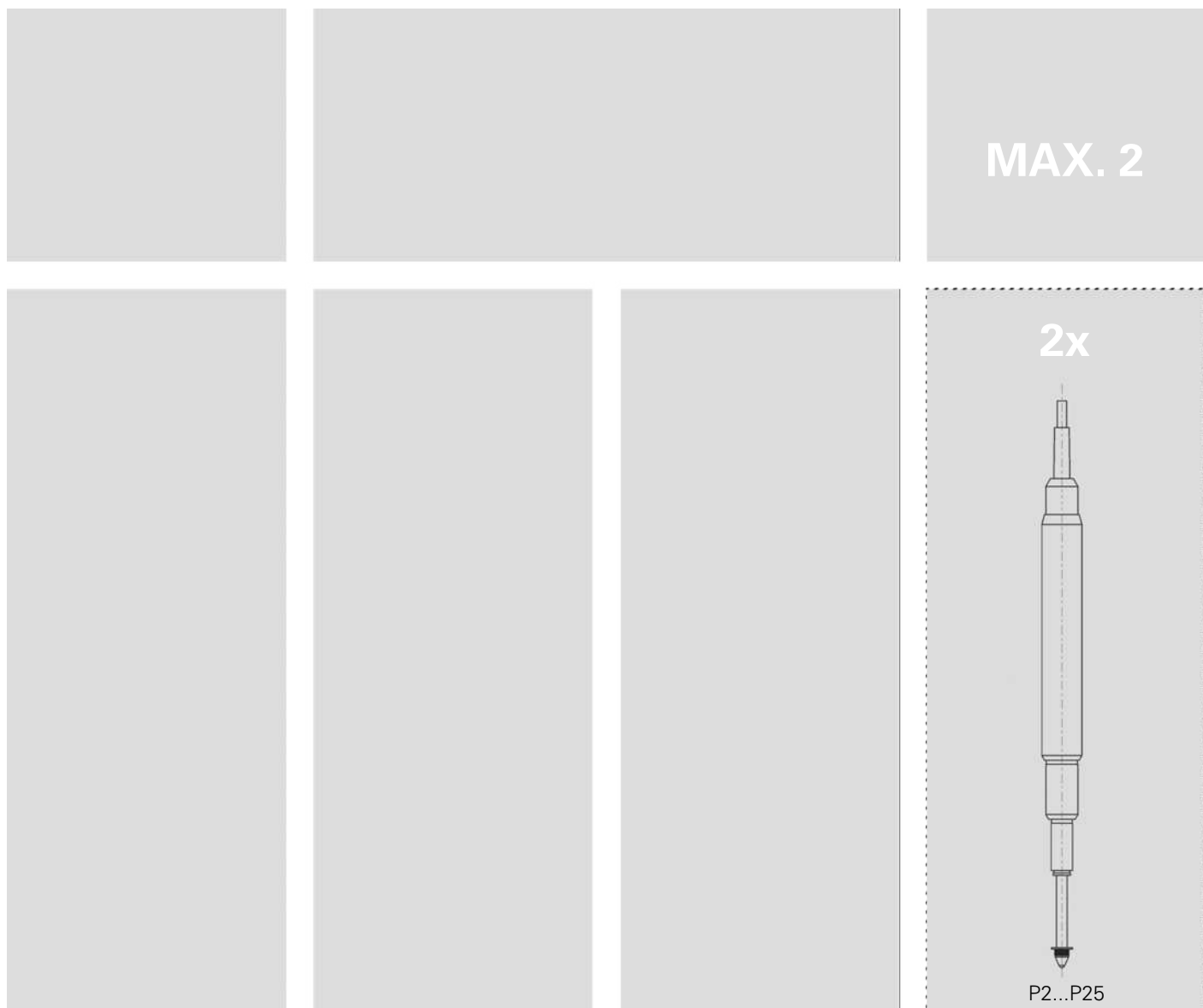
Individual measurement



Digital display

D50S

POSSIBILITIES OF CONNECTION



Digital display

D62S

DESCRIPTION

- New compact display unit exclusively for P12D probes with industrial connector M8
- 2x P12D probe inputs (M8)
- Innovative modern design
- Large touch screen display 4.3" with intuitive functions
- Shockproof construction
- Built-in battery autonomy 8 hours (depends on model)
- Indication of the global tolerance (depends on model)
- Data output RS232, USB or Bluetooth® technology (depends on model)
- Programmable by PC



IP54

(front face)

mini-USB

RS232



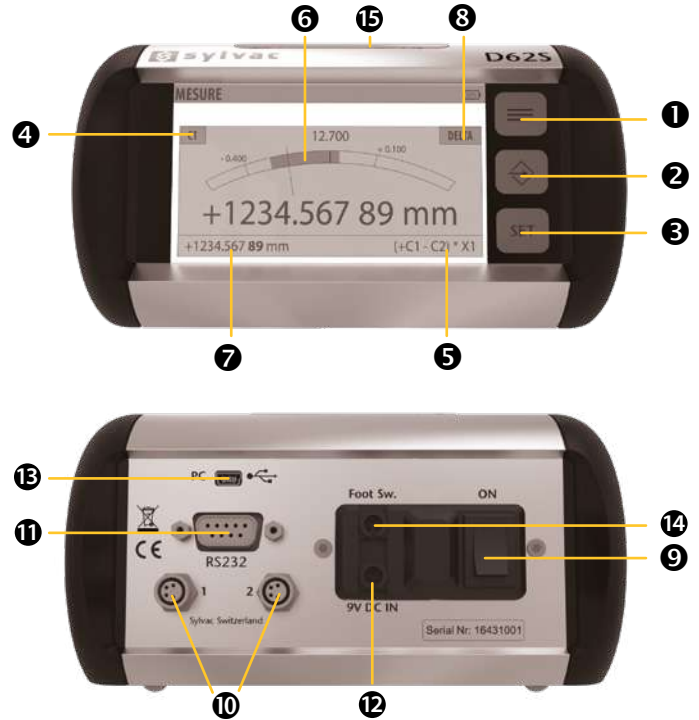
Output cable RS232 to RS232 (926.5609) or USB (925.1142) or output cable mini-USB sur USB (926.6001)

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

H

TECHNICAL SPECIFICATIONS

		804.1062	804.1063
Model		D62S	D62S Advanced
Inputs		2x M8 for Sylvac absolute digital probes	
Resolution	μm	0.01	
Max. error	μm	P12D HR : 0.6	
Repeatability	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 : IP54)	
Output data		USB (Device) ¹⁾ , RS232	Bluetooth® wireless technology, RS232, USB (Device) ¹⁾
Indicator of the global tolerance			•
Battery			•
Time and date display (RTC)			•

²⁾ see cables chapter

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.

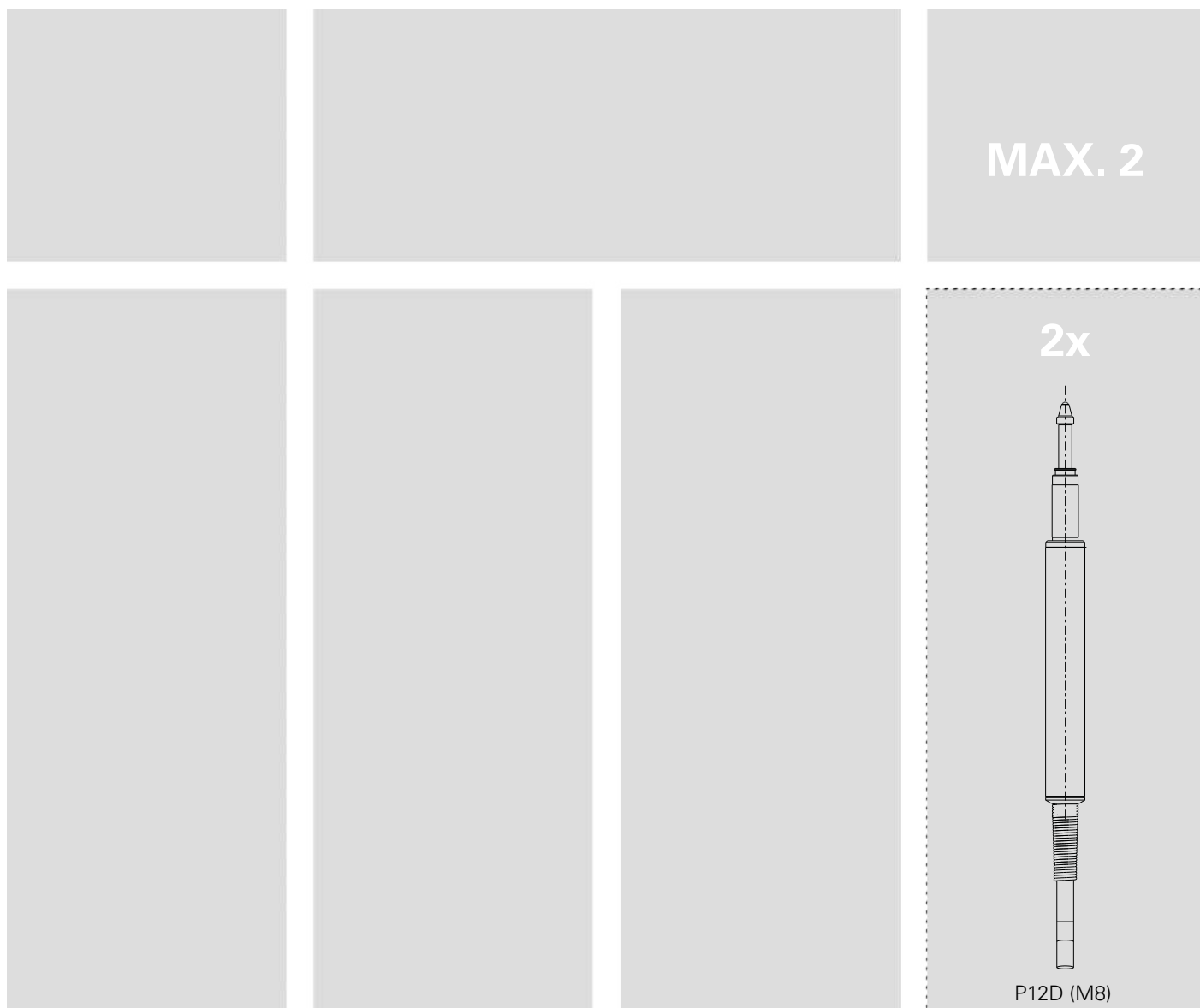


D62S Advanced sending data on the Sylvac Anywhere App for smartphones.

Digital display

D62S

POSSIBILITIES OF CONNECTION



Digital display

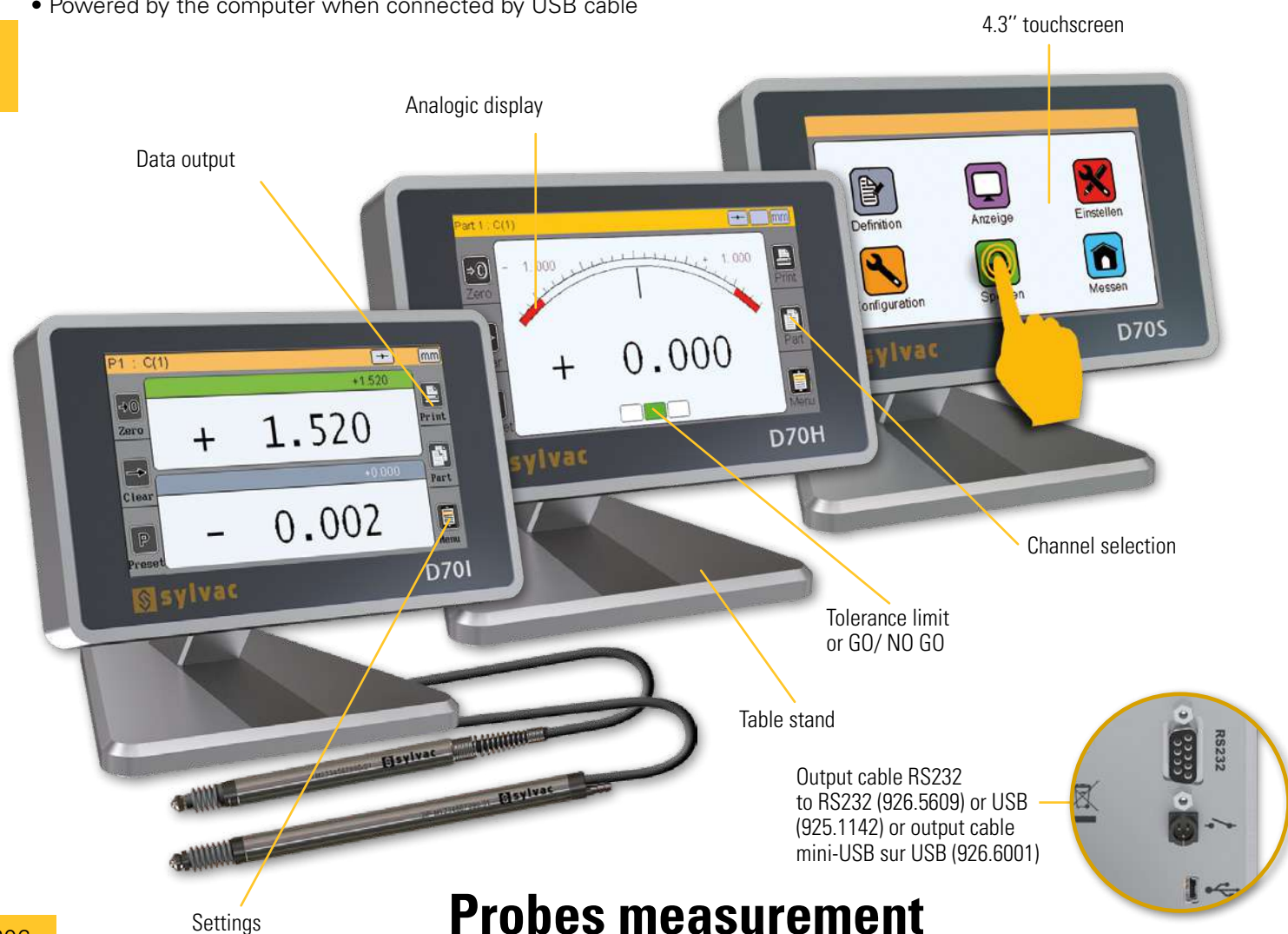
D70S/H/I

DESCRIPTION

- 4"3 touch screen display
- Available in 3 versions:
 - D70S for Sylvac capacitive probes
 - D70I for Sylvac inductive probes (also compatible with Tesa and Mahr probes)
 - D70H for Heidenhain ST/MT probes (Mitutoyo and Magescale probes with adapter)
- All versions with 2 probes/instruments inputs
- Display resolution selectable up to 0.00001 mm (on D70H)
- Simple or double display with bargraph, needle or no-tolerances
- Probe's combination : (C1, C2, C1-C2 ...)
- Direct measurement or Min, Max, Average, Max-Min...
- User friendly interface
- Very robust construction (Aluminium)
- USB connection «Keyboard» unidirectional and RS232 bidirectional
- No driver, no software to be installed
- Compatibility Excel and SPC
- Powered by the computer when connected by USB cable

mini-USB

RS232



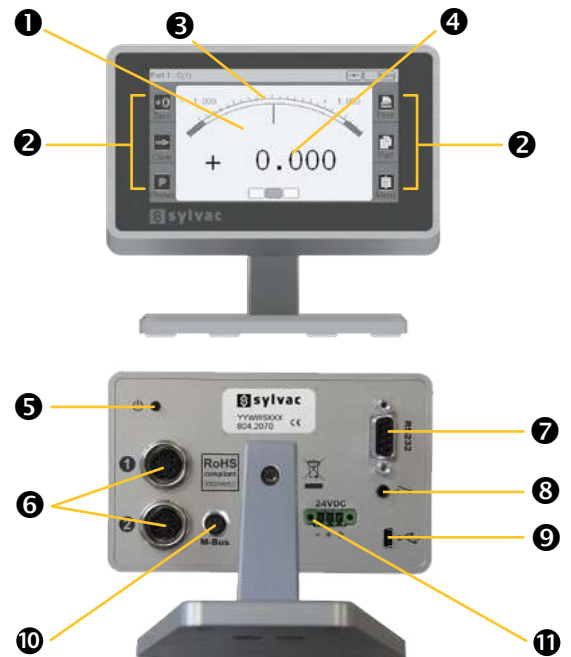
Probes measurement

Digital display

D70S/H/I

DISPLAY

- ❶ 4.3" Touchscreen display
- ❷ User friendly interface
- ❸ Analogic display
- ❹ Digital display
- ❺ ON/OFF
- ❻ 2 Capacitive / Inductive / 1VPP probes input (depending model)
- ❼ RS232 output
- ❽ 1 external contact
- ❾ Mini-usb and and supply/data
- ❿ Input M-Bus / M8 (depending model)
- ⓫ Power-supply 24VDC (depending on model)



TECHNICAL SPECIFICATIONS

804.2070		
Type		D70S
Overall dimensions	mm	140x105x111
Weight	kg	0.6
Case		Aluminium
Protection according to IEC 60529		IP40
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		IP40
Output data		USB / RS232 (1x1)
Probes		Heidenhain ST/MT probes (Mitutoyo & Magescale with adapter) / P12D
Programmable by PC		●

* Not available in Switzerland

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
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

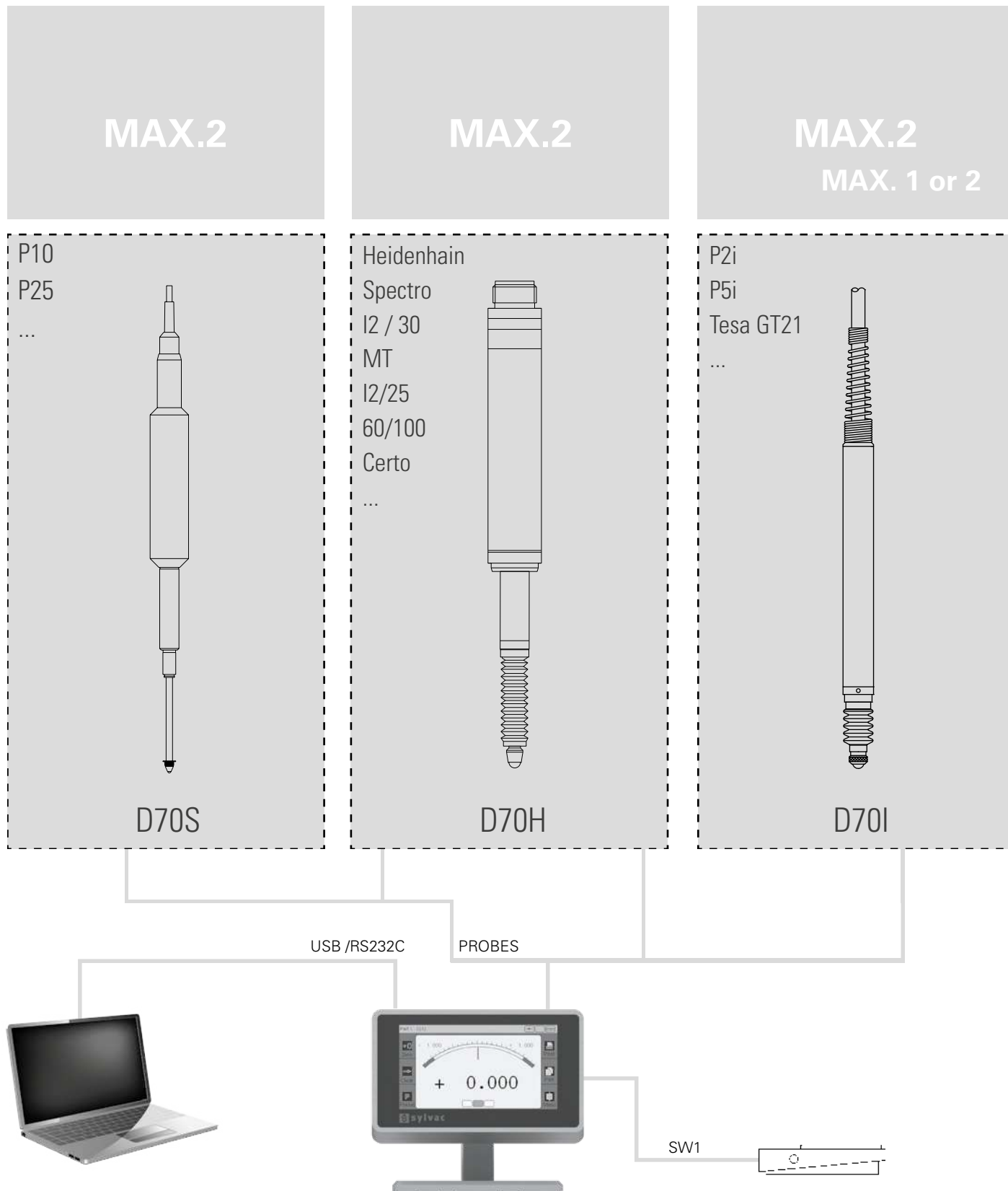
STANDARD DELIVERY

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

Digital display

D70S/H/I

POSSIBILITIES OF CONNECTION



Digital display

D70A

DESCRIPTION

- 4"3 touch screen display
- Compatible with all brands of plug and air gages
- Available in 2 versions : 1 or 2 inputs
- Input for MB-IO
- Simple or double display with bargraph, needle or no-tolerances
- Direct measurement or Min, Max, Average, Max-Min...
- User friendly interface
- Very robust construction (Aluminium)
- USB connection «Keyboard» unidirectional and RS232 bidirectional
- No driver, no software to be installed
- Compatibility Excel and SPC
- Powered by the computer when connected by USB cable

mini-USB

Air measurement

RS232



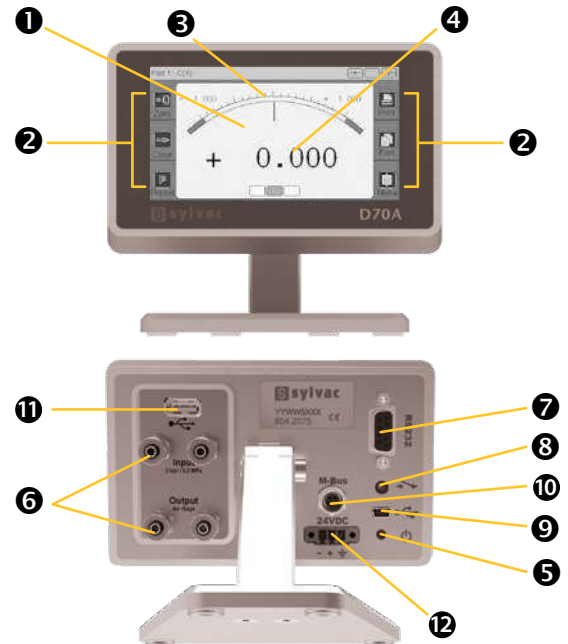
* plug and air gages available on request

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			H
Type		D70A - 1 input	
Overall dimensions	mm	140x105x111	
Weight	kg	0.6	
Case		Aluminium	
Protection according to IEC 60529		IP40	
Output data		USB / RS232	
Instruments		Plug gages and air gages / P12D	
Programmable by PC		●	
804.2075			
Type*		D70A - 2 inputs	
Overall dimensions	mm	140x105x111	
Weight	kg	0.6	
Case		Aluminium	
Protection according to IEC 60529		IP40	
Output data		USB / RS232 (1x1)	
Instruments		Plug gages and air gages / P12D	
Programmable by PC		●	

Digital display

D70A

TECHNICAL SPECIFICATIONS



D70A - 1 input

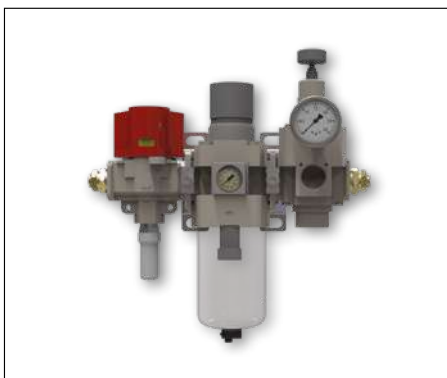


D70A - 2 inputs

APPLICATIONS AND ACCESSORIES



D70A with air and plug gauges



Air kit for D70A (804.2203)



D70A with accessory 804.2202 (panel mounting)

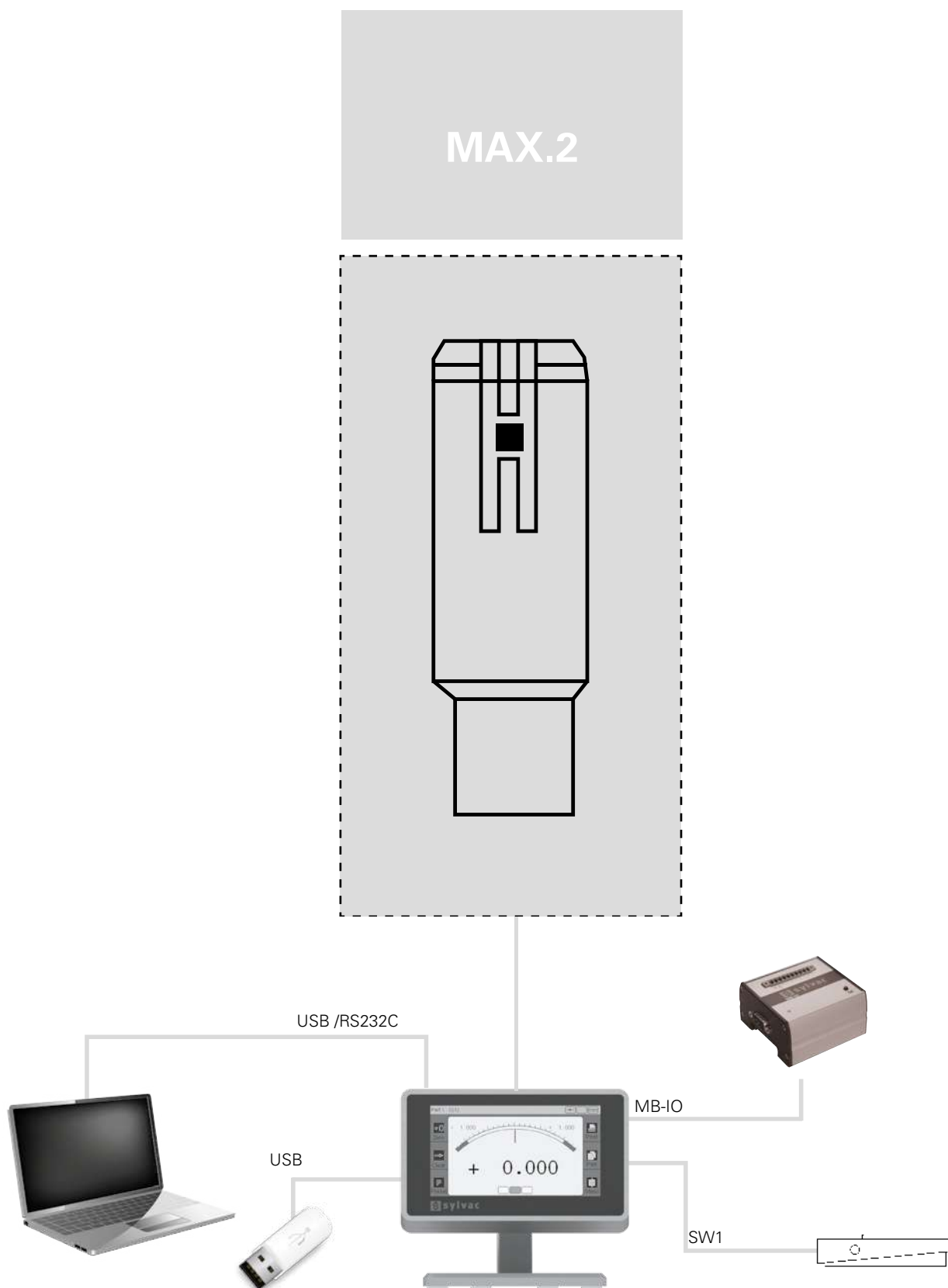
STANDARD DELIVERY

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

Digital display

D70A

POSSIBILITIES OF CONNECTION



Multiplexer unit

D200S

DESCRIPTION

- Multiplexer with 8 inputs (for Sylvac probes P2 to P25)
- Dynamic measurement (200 mes/s)
- Ideal for the layout conception of multi-gauging
- Command for pneumatic lifting unit
- Software allowing the treatment of up to 24 channels simultaneously (bargraph)
- Sending of the measured values into Excel, notepad or in specific files
- Creation of sequences for sending data
- Mathematic combinations between channels
- Standalone use possible



Output cable USB to USB (804.1210) or output cable RS232 to RS232 (925.5609)

Tolerance indicators

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

8 inputs for Sylvac probes



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

Opto-coupled digital output rack

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

SWISS MADE

USB

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

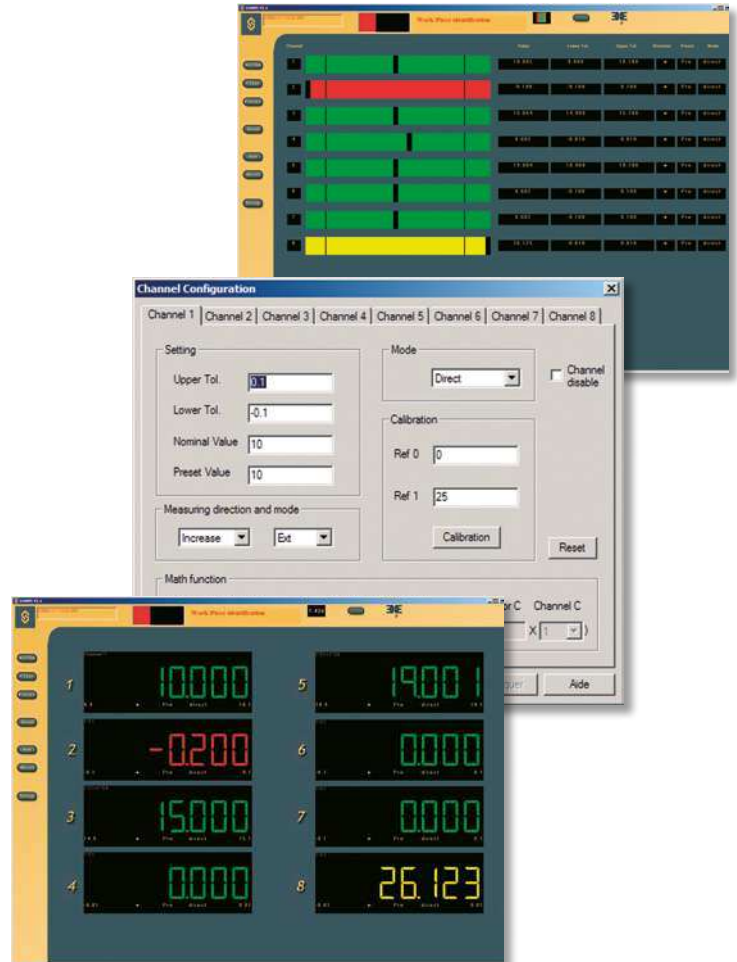
Sending Sequences of Data

External contact configuration

Electrical external contact configuration

Open / Save configurations

Transfer configuration to D200S unit



TECHNICAL SPECIFICATIONS

804.1200		
Type		D200S
Max. Error	μm	P2 : 1.5 / P5 : 1.6 / P10 : 1.6 / P25 : 1.9
Repeatability	μm	P2 : 0.2 / 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)
- CD with D200S software
- Instruction manual

APPLICATIONS



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



Capacitive probes connected to a D200S.

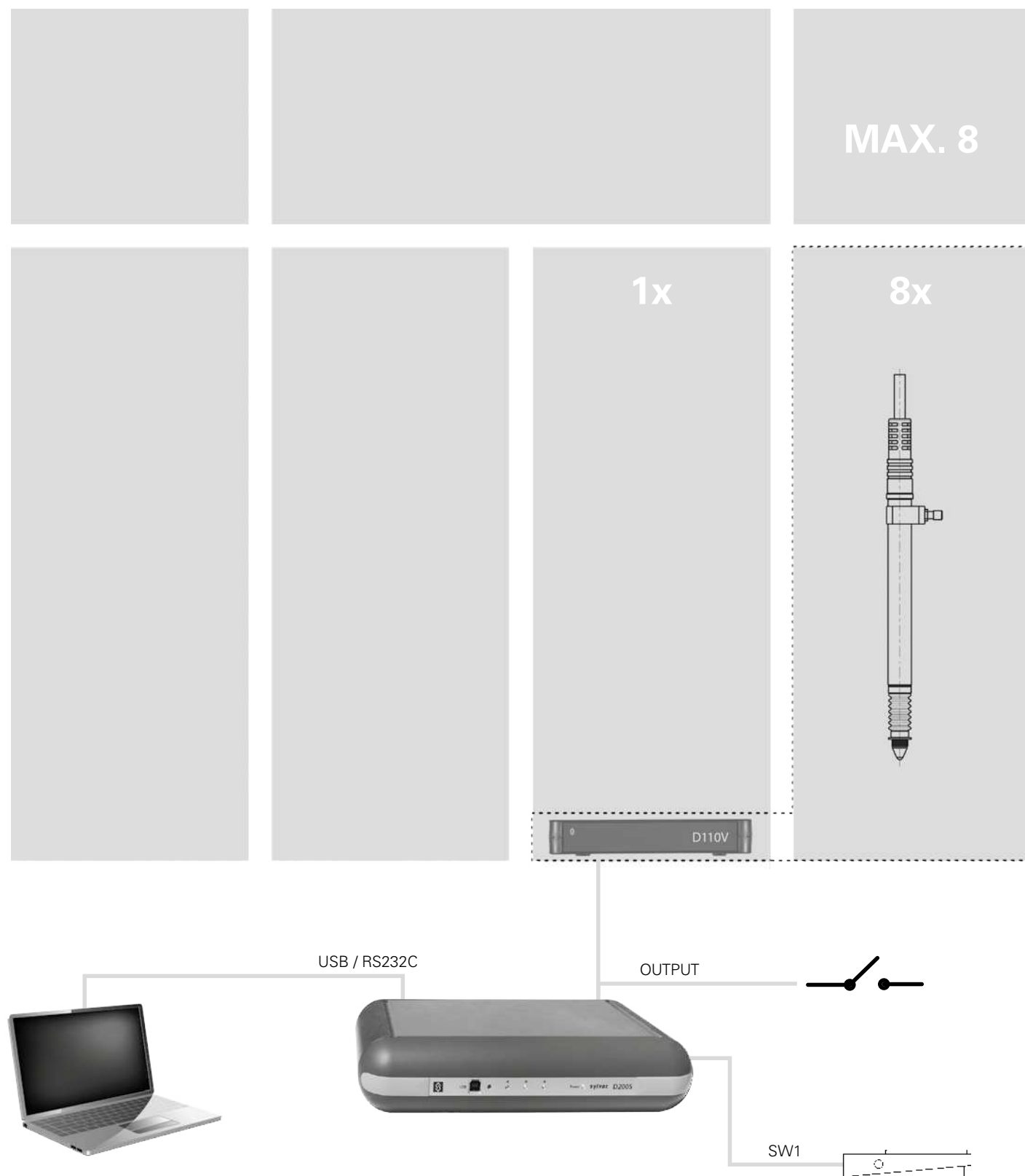


Multi-gauging application

Multiplexer unit

D200S

POSSIBILITIES OF D110V PNEUMATIC LIFTER



Multiplexer unit

D200S

POSSIBILITIES OF CONNECTION

MAX. 8

8x



P2...P25

MAX. 8

8x



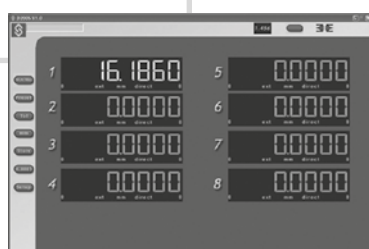
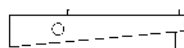
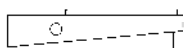
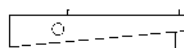
P2...P25

MAX. 8

8x



P2...P25



Digital display

D300S V2

DESCRIPTION

- Digital display with 8.5" touchscreen
- Available in 3 versions :
 - 6 USB and M-Bus
 - 6 USB and 2 Sylvac capacitive probe input
 - 6 USB and 4 Sylvac capacitive probe input
 - M-Bus and 2 Sylvac capacitive probe input
 - M-Bus and 4 Sylvac capacitive probe input
- Automatic detection of connected instruments
- CPU 5 times faster than previous version
- OS based on Windows CE 7 embedded
- Display and page setting fully configurable (up to 8 channels per page, up to 64 pages)
- Memorizing of setups and values
- RJ-45 Ethernet connector
- General or individual Preset
- Math functions for each channel
- Numeric, analog and statistic display
- Compatible with instruments with Bluetooth® Wireless technology*



Output cable USB to USB (804.1210) and output cable RS232 to RS232 (925.5609)

SWISS MADE

USB

RS232

Large touchscreen 8.5" protected against liquids IP65



Fully configurable user interface allowing to define the number of displayed channels per screen

Ergonomic keyboard

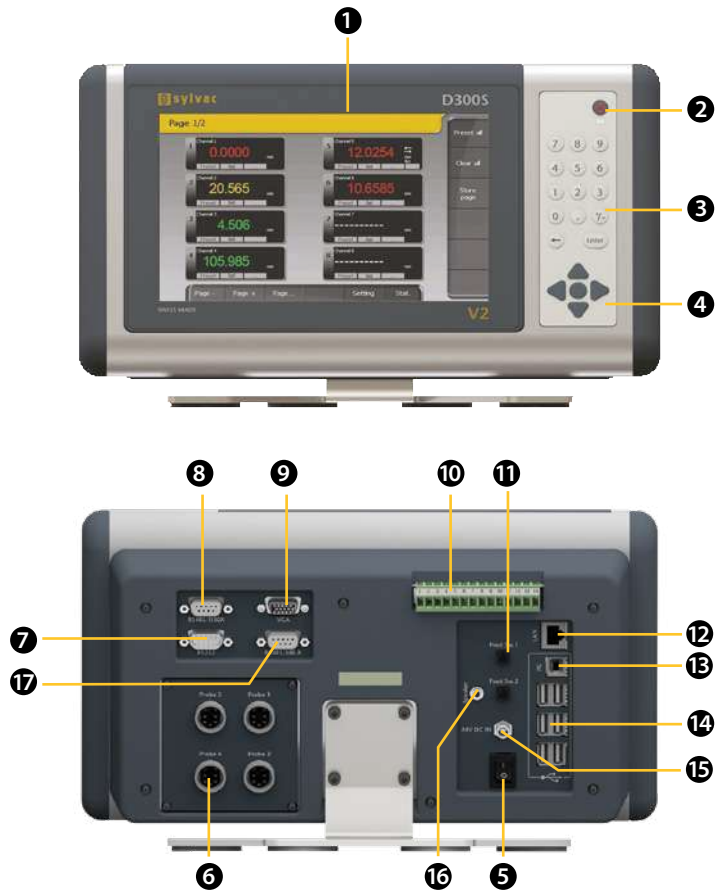
* Dongle Smart required

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
- 7 RS-232 instrument input or PC connection ¹⁾
- 8 RS-485 input
- 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
- 16 Audio jack connector
- 17 RS485 connector for connecting MB-X modules



¹⁾ depends on configuration

TECHNICAL SPECIFICATIONS

	804.1300	804.1320	804.1310	804.1330	804.1340
Model	D300S-2	D300S-4	D300S		
Inputs *	2 probes / 6 USB**	4 probes / 6 USB**	M-Bus / 6 USB**	2 probes / M-Bus	4 probes / M-Bus
Max error μm	P2 : 1.5 / P5 : 1.6 / P10 : 1.6 / P25 : 1.9		---	---	---
Max. Error ¹⁾ μm	P2 : 0.5 / P5 : 0.6 / P10 : 0.6 / P25 : 0.8		---	---	---
Repeatability μm	P2 : 0.2 / 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

* Extendable to 32 probes and 12 USB instruments

** On request, all the units can be provided with M-Bus modules connectors

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



Multiple instruments connection through M-BUS inputs

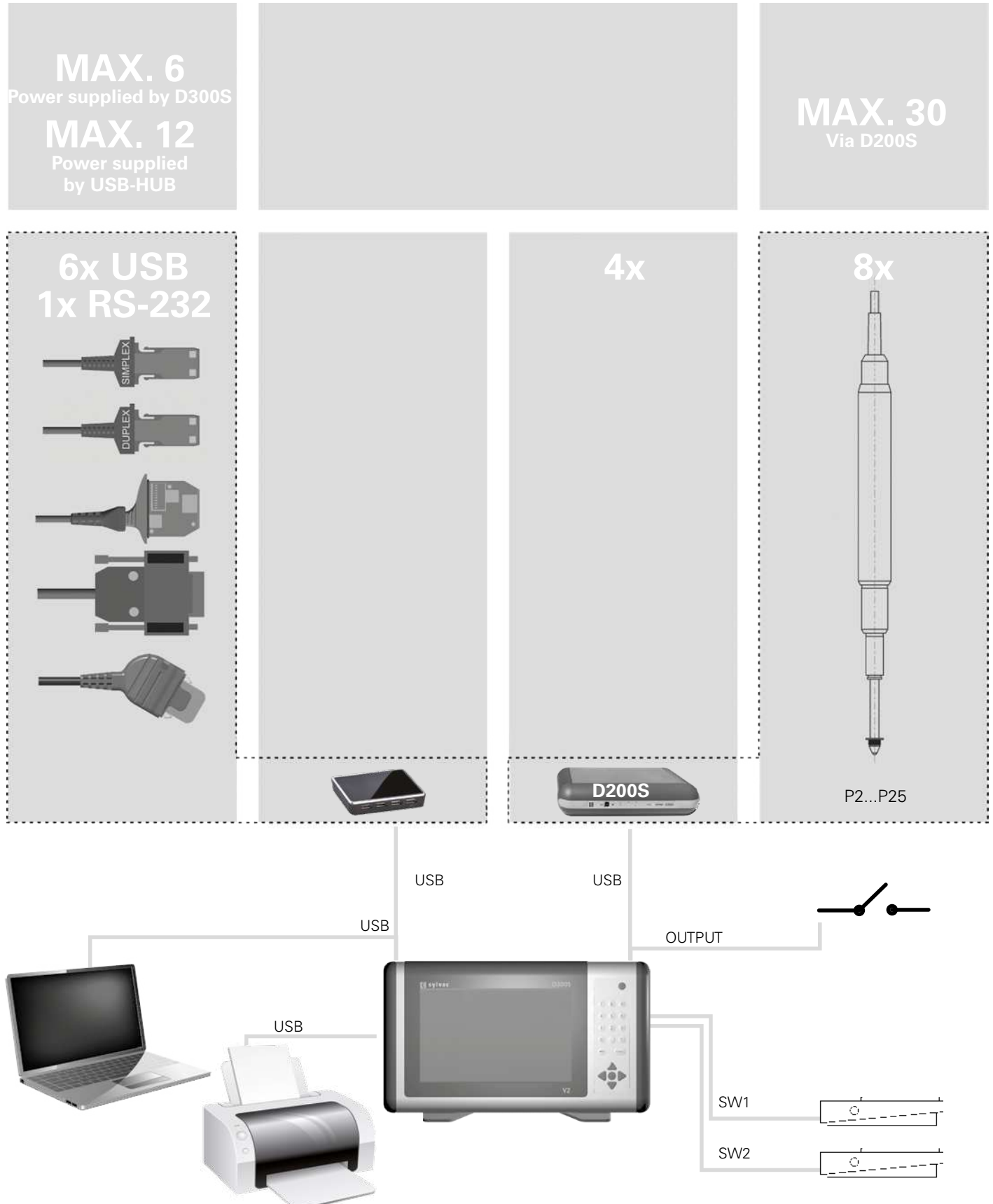


Dial gauges with Bluetooth® wireless technology connected to D300S

Digital display

D300S V2

POSSIBILITIES OF CONNECTION WITH ACCESSORIES



Digital display

D300S V2

POSSIBILITIES OF CONNECTION WITH ACCESSORIES

MAX. 32

MAX. 32

2x

15x

7x

4x

P2...P25



P2...P25

RS485

RS485

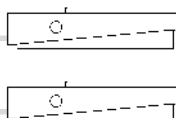
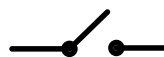
OUTPUT

USB

USB

SW1

SW2



Digital display

D300S V2

POSSIBILITIES OF CONNECTION WITH ACCESSORIES

MAX. 32

Compatible with all
M-BUS modules, except
MB-RS, MB-AG and MB-BT

MAX. 32

2 - 8x*



P2i / P2iP / P5i / P5iP



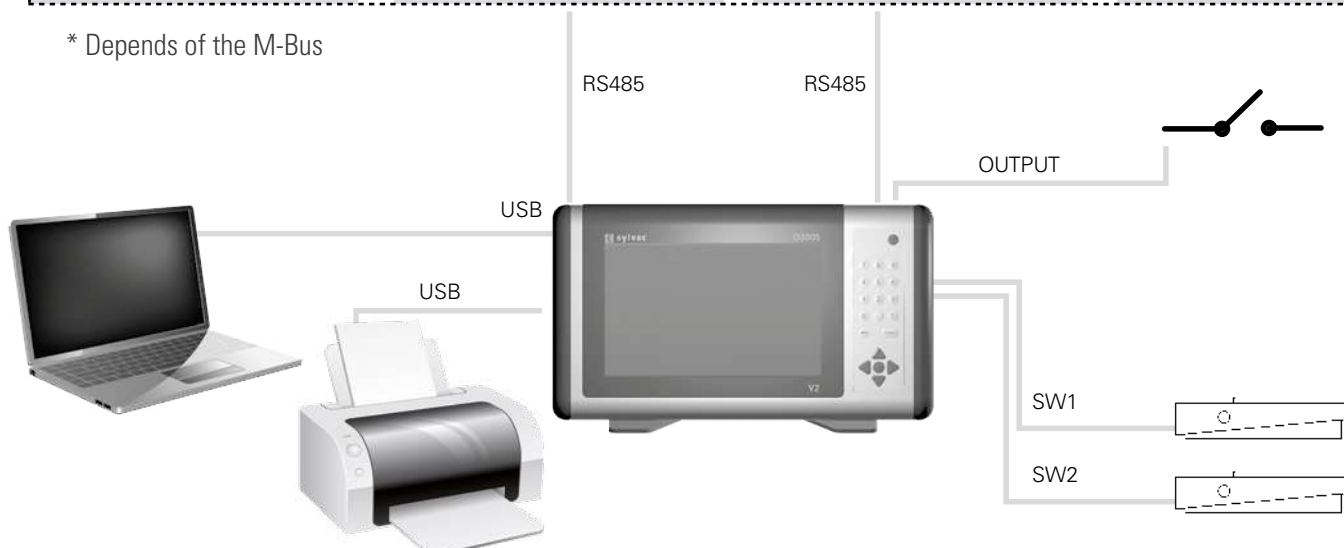
2 - 8x*



P2i / P2iP / P5i / P5iP

H

* Depends of the M-Bus



Digital display

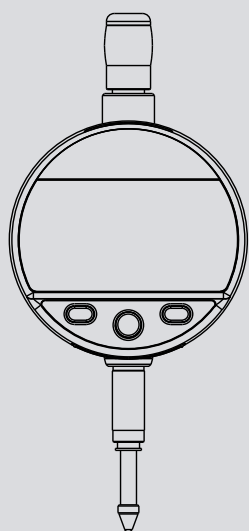
D300S V2

POSSIBILITIES OF CONNECTION WITH BLUETOOTH® WIRELESS TECHNOLOGY

MAX. 8

Instruments

Bluetooth®



1x

981.7100



USB

USB

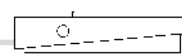
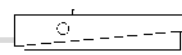
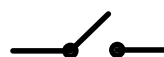
USB

OUTPUT



SW1

SW2



Digital display

D400S

DESCRIPTION

- Digital multifunctional unit with 7" touch screen display
- Multi-brands compatible through M-BUS multiplexers (possibility to mix the brands)
- Designed for multigauging applications
- Up to 99 instruments connectable through M-BUS modules
- Automatic detection of connected instruments
- Storage of up to 128 different parts configurations
- Up to 30'000 measurements can be saved by configuration
- Display of up to 32 channels simultaneously (on the same screen) or distributed up to 32 pages
- Single or multi-gauging display mode
- SPC functions (run chart, pareto, histogram with Gauss curve, etc.)
- PLC functions and PLC communication protocols
- Formula editor, free combination between all instruments connected to the M-BUS
- Configurable by PC
- Ethernet connection with Modbus TCP
- Multifunction footpedal input
- User friendly interface
- Very robust construction (Aluminium)
- Table or panel mounting

Large touchscreen 7" protected against liquids IP65



Output cable USB to USB (804.1210) or RS232 (925.5609)

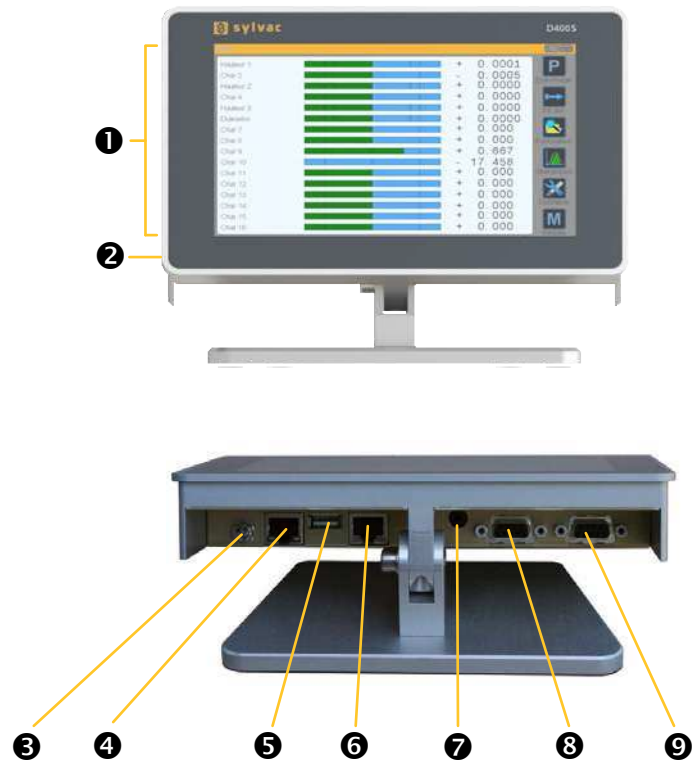


Digital display

D400S

INTERFACE | HARDWARE

- ❶ Customizable display interface
- ❷ Aluminium body
- ❸ 12VDC/30VDC Power supply
- ❹ RJ-45 Ethernet TCP4
- ❺ USB host (for usb key)
- ❻ USB device (virtual keyboard)
- ❼ Footswitch
- ❽ M-bus
- ❾ RS232



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

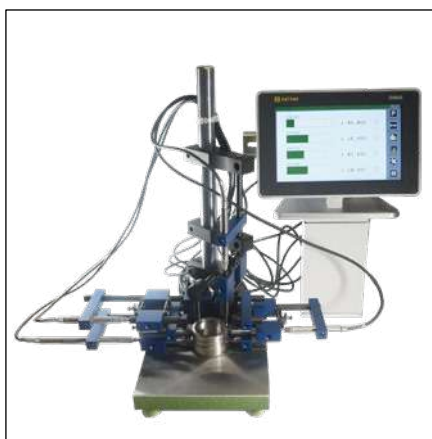
STANDARD DELIVERY

- 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

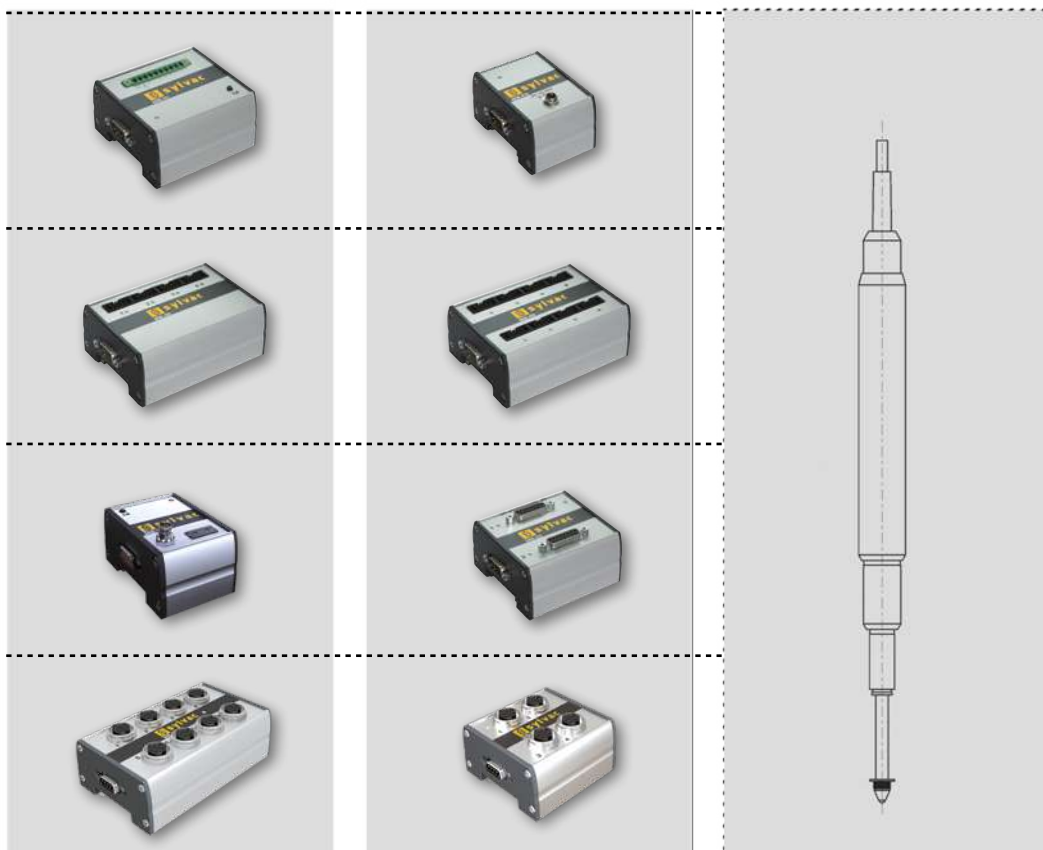
Digital display

D400S

POSSIBILITIES OF CONNECTION WITH ACCESSORIES

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

MAX.99



H

Multiplexer unit

D302 / D304

DESCRIPTION

- Multiplexing unit with 2 or 4 inputs for Sylvac probes P2 à P25
- Dynamic measurement (10 à 20 meas./Sec. according to resolution)
- Perfect solution for multi-gauging system
- Analog output for PLC connection
- Standalone use possible



Output cable RS485 to RS485 (925.5609)

Output cable mini-USB to USB (926.6001)

SWISS
MADE

RS485

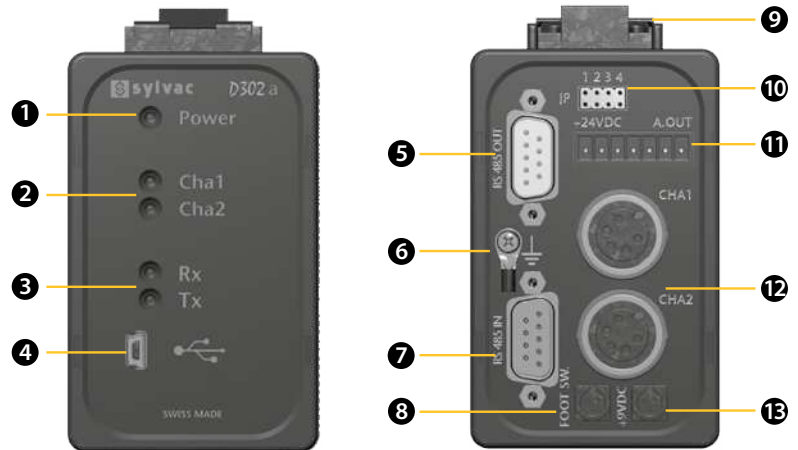
mini-USB

Multiplexer unit

D302 / D304

HARDWARE DESCRIPTION

- ① LED Power
- ② LED 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 Analog output / 24 VDC (only version a)
- ⑫ Probes input
- ⑬ 9V power supply input



TECHNICAL SPECIFICATIONS

		804.1302	804.1303	804.1304	804.1305
Modele		D302	D302a	D304	D304a
Max error	µm	P2 : 1.5 / P5 : 1.6 / P10 : 1.6 / P25 : 1.9			
Max. Error ¹⁾	µm	P2 : 0.5 / P5 : 0.6 / P10 : 0.6 / P25 : 0.8			
Repeatability	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

STANDARD DELIVERY

- Unit according to technical specifications
- Feet (pair)
- RS232/RS485 cable
- Charging unit according to country (904.4200)
- Instruction manual

Multiplexer unit

M-Bus

DESCRIPTION

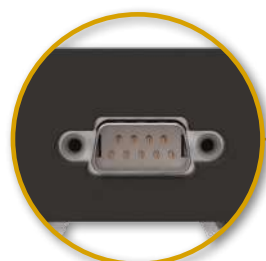
- Multiplexer units allowing to connect different kind and brands of instruments to our D300S V2, D400S and Sylcom
- Possibility to connect and mix different brands together
- RS485 based protocol
- The different units can be mounted on a DIN rail
- Robust construction



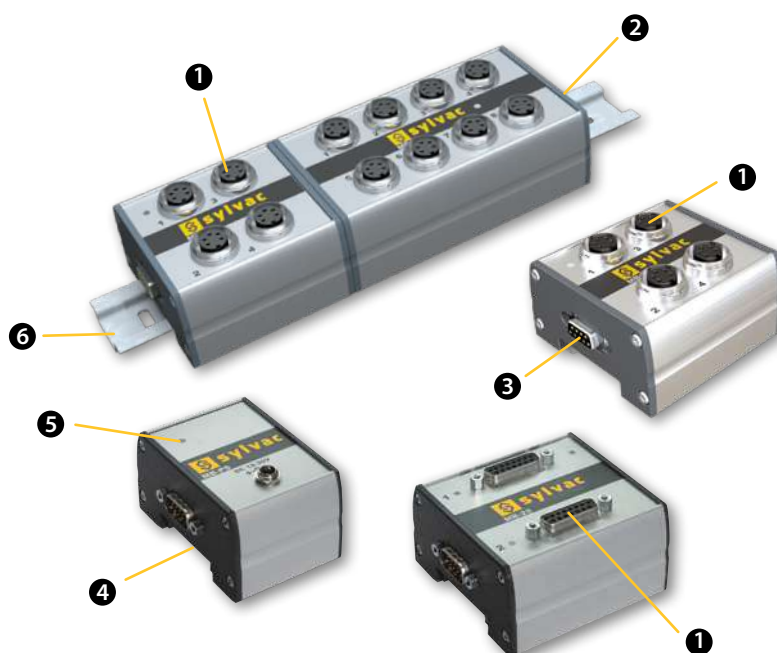
RS485

HARDWARE DESCRIPTION

- ❶ Probes input
- ❷ M-Bus input
- ❸ M-Bus output
- ❹ DIN mounting groove
- ❺ LED / Power module
- ❻ DIN rail



Output cable RS485 to RS485 (925.5609)



Multiplexer unit

M-Bus

TECHNICAL SPECIFICATIONS

	804.2104	804.2108	804.2122	804.2114	804.2118	804.2105
Modele	MB-4C	MB-8i	MB-2S	MB-4D	MB-8D	MB-4P
Instrument type	Sylvac capacitive probes	Inductive ¹⁾	Heidenhain probes (11µA/1VPP)	Digimatic		Probes P12D
Compatibility	D300S & D400S					
Dimensions (L x h x w) mm	107x42x74	131x44x74	82x43x74	107x39x74	107x39x74	107x42x74
Weight kg	0.2	0.3	0.2	0.2	0.2	0.2
Inputs	4	8	2	4	8	4
Case	Anodized aluminium profile					
Output data			RS 485			

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

	804.2130	804.2140	804.2160	804.2170	804.2180	804.2190
Modele	MB-IO	MB-PS	MB-RS	MB-TP	MB-BT	MB-AG
Instrument type	PLC I/O	Power-Supply	Computer	Temperature sensor input PT100 and Thermocouple	Instruments with Bluetooth® wireless technology	Plug gauges and Air gauges
Compatibility	D300S & D400S			D400S		
Dimensions (L x h x w) mm	82x39x74	52x42x74	82x39x74	52x51x74	52x39x74	52x64x74
Weight kg	0.2	0.2	0.2	0.1	0.1	0.15
Inputs	8	12-30 VDC	254	1 / 1	8	1
Case	Anodized aluminium profile					
Output data	RS 485					



MB-4C



MB-8i



MB-2S



MB-4D



MB-8D



MB-4P



MB-IO



MB-PS



MB-RS



MB-TP



MB-BT



MB-AG

STANDARD DELIVERY

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

Multiplexer unit

APPLICATIONS



Probes connection through M-BUS inputs



Probes connection on PC through MB-RS



Probes and indicators connection through M-BUS inputs



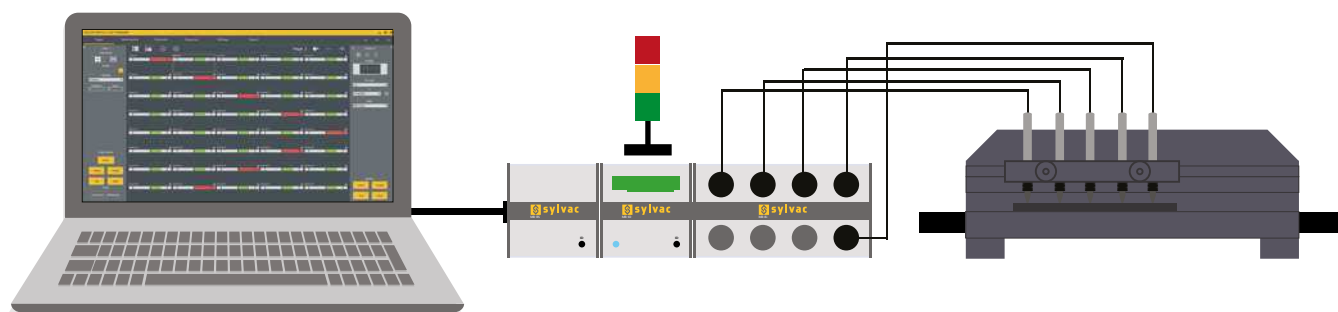
Probes connection on a D300S through D302 multiplexer units



Digimatic instruments connected to a MB-4D








Probes connected to a MB-8i



Connection of probes via Mbus on Sylcom

Display units

ACCESSORIES

			D50S	D62S	D70S	D70H	D70I	D70A	D200S	D300S	D302 D304	D400S	P12D
	904.1108	D108-additional 8 input unit for probes											
	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	PC only										
	926.7021	Footpedal USB robust	PC only										
	904.6001	Dust cover								•			
	804.1211	Connection cable D200S - D110/V							•				

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.

Display units

ACCESSORIES



		D50S	D62S	D70S	D70H	D70I	D70A	D200S	D300S	D302 D304	D400S	P12D
804.2104	MB-4C								•		•	
804.2108	MB-8i								•		•	
804.2122	MB-2S								•		•	
804.2114/18	MB-4D & MB-8D								•		•	
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											•
804.2203	Air kit						•					
804.2202	Bracket for panel mounting						•					
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						•				•	

MEASURING BENCH PS15/16/17

Welcome to our small world!

Miniaturization of manufactured goods generates challenges for the control of smaller and smaller components with high requirements on accuracy. Conventional measuring instruments and even latest optical and non-contact equipment sometimes do not allow achieving the expected results. Sylvac has a long experience of all these particular applications, acquired in contact of our very demanding Swiss watchmaker's customers.

Our PS bench table series was designed to meet high expectations and to offer solutions even when it seems to be impossible! Whether internal or external measurement of small dimensions, Sylvac is ready for the challenge; If our wide selection of instruments, tables, anvils and accessories is not sufficient, we will design and manufacture the measuring solution according to your needs.

Hundreds of users around the world cannot work without our measuring bench tables PS. Let us be your partner for the measurement of small components.

Integrated digital display or values displayed on an external display unit.

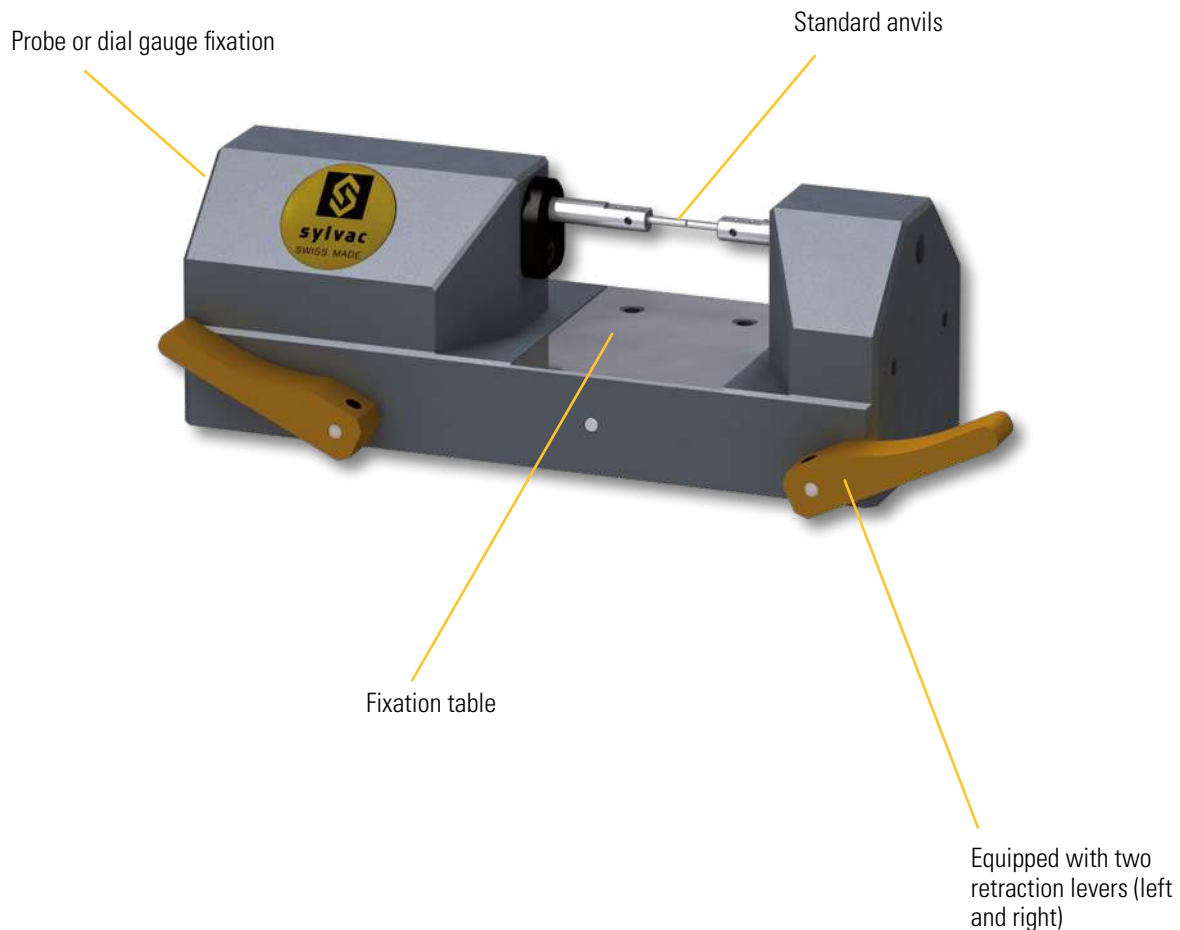
Large selection of anvils, tables and accessories available

Adjustable measuring force



DESCRIPTION

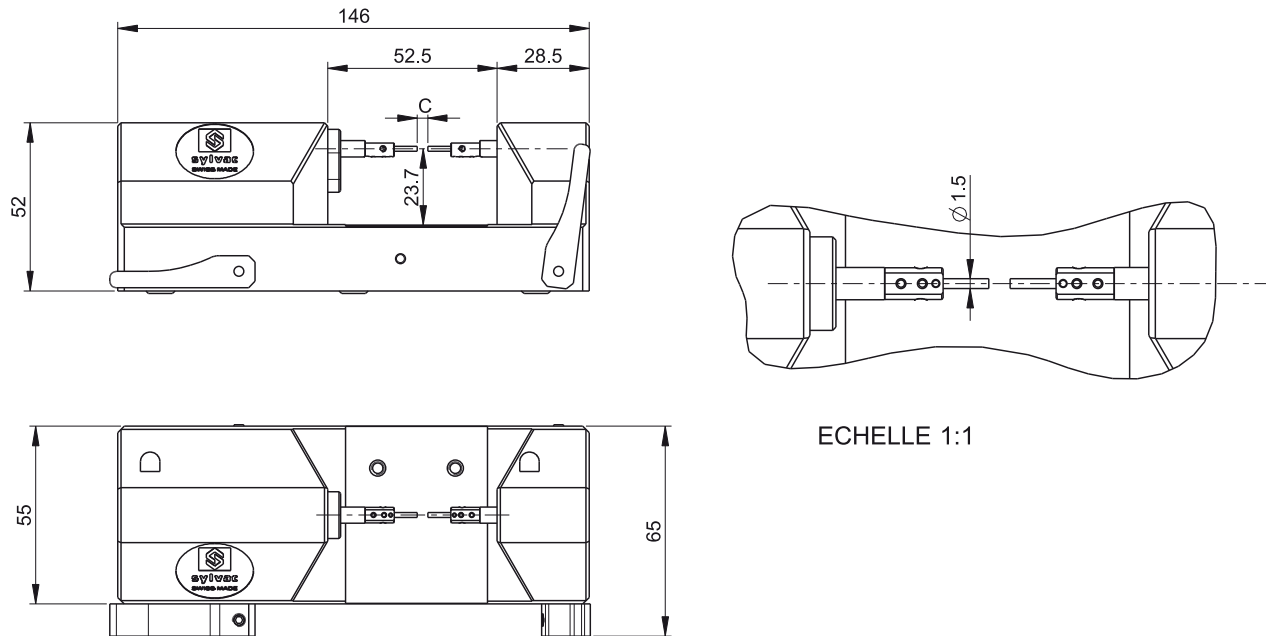
- Small horizontal bench table designed to easily and quickly check small parts up to 10 mm
- **Measuring spindle guided by linear ball bearing**
- The measured value will be displayed either by a Sylvac digital dial gauge range 12.5mm, up to 0.1 μm resolution or by a Sylvac measuring probe P10 (P10L) linked to a digital display unit. Using a pair display unit / measuring probe an overall accuracy of 0.6 μm and a repeatability of 0.2 μm can be reached.
- This bench table can be equipped with different kind of tables as well as with several types of anvils of any shapes
- Standard spindle \varnothing 1.5 mm (908.2175)
- Compatible with Sylvac \varnothing 1.5 mm and Cary type spindle



Bench table

PS15

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

		808.1215
Type		PS15BH
Max. Capacity C	mm	20
Measuring range	mm	10
Adjustable measuring force	N	0.3 - 1.0
Max. error	µm	Probe P10 : 0.6µm / Dial gauge S_Dial : 1.6 - 3µm
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 keys 2 and 2.5 mm
- Dust cover

DESCRIPTION

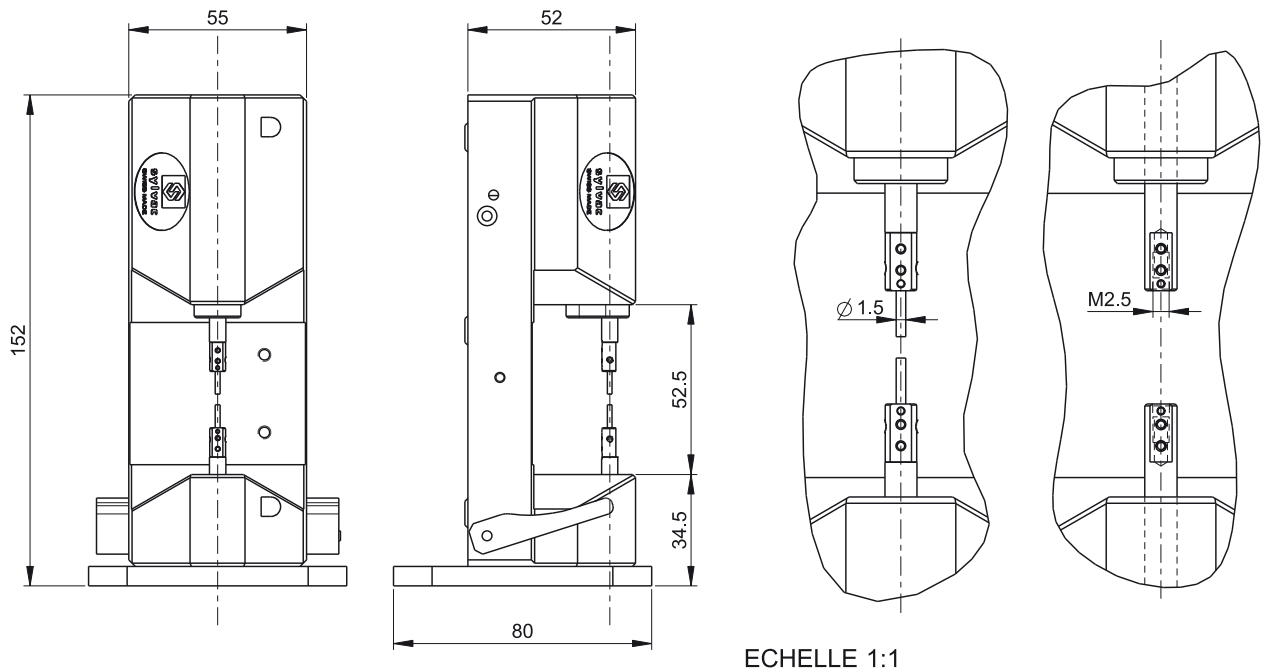
- Small vertical bench table designed to easily and quickly check small parts up to 20 mm
- **Measuring spindle guided by linear ball bearing**
- The measured value will be displayed either by a Sylvac digital dial gauge range 12.5mm, up to 0.0001mm resolution or by a Sylvac measuring probe P10 (P10L) linked to a digital display unit. Using a pair display unit / measuring probe an overall accuracy of 0.6 μm and a repeatability of 0.2 μm can be reached.
- This bench table can be equipped with different kind of tables XYZ as well as with several types of anvils of any shapes



Bench table

PS15

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

		808.1216	808.1218
Type		PS15BV	PS15BV +
Measuring scale	mm	10	10
Adjustable measuring force	N	0.3 - 1.0	0.3 - 1.0
Max. error	µm	Probe P10 : 0.6µm / Dial gauge S_Dial : 1.6 - 3µm	
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 keys 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 adjustment XYZ	•	
908.2161	Supporting table with fine adjustment 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)	•	

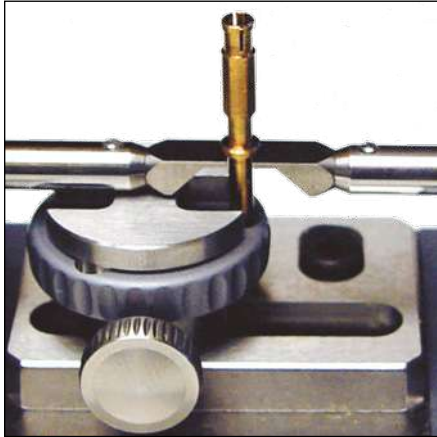
ANVILS

Compatible anvils list at the end of this chapter.

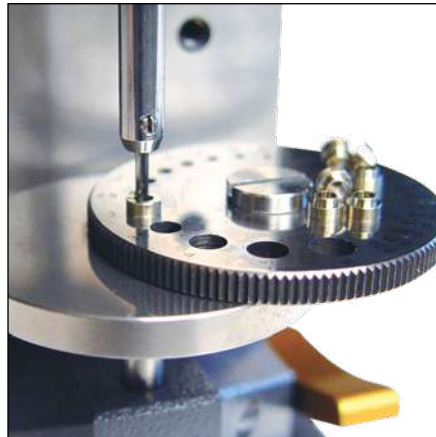
Bench table

PS15

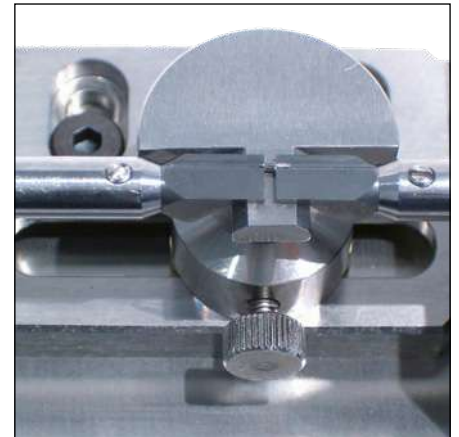
APPLICATIONS



XYZ table with plate with fine adjustment.



Measurement of small parts with PS15V+ and rotation 25 holes support



Special anvils

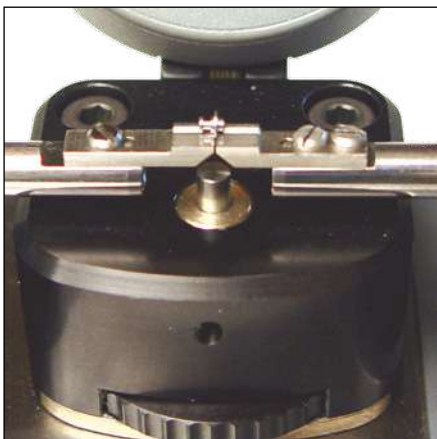
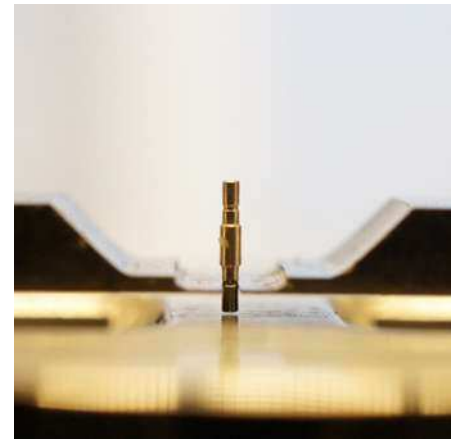


Table with plate Ø 3 mm and fine adjustment. Indication of the height integrated.



Multi-functional measuring station



Gear measuring anvils. On request

Bench table

PS16 V2

DESCRIPTION

SMART

• Integrated Bluetooth® Wireless technology

- Brand new design with integrated display resolution 0.1µm
- The bench tables PS16 V2 are designed to check dimensions up to 50 mm
- These bench tables can be equipped with different kind of tables to fit your needs as well as with several types of anvils of any shapes
- A ball bearing, as well as many other features and accessories make these tables a must for your workshop or your inspection room
- Adjustable measuring force
- Led tolerances status
- Data output USB and Proximity
- Standard measuring anvils Ø 1.5 mm

Built-in
Bluetooth®



**SWISS
MADE**

Built-in
Bluetooth®

USB

PROXIMITY

WATER RESISTANT

IP67

Cable output mini-USB to USB
(926.6001)

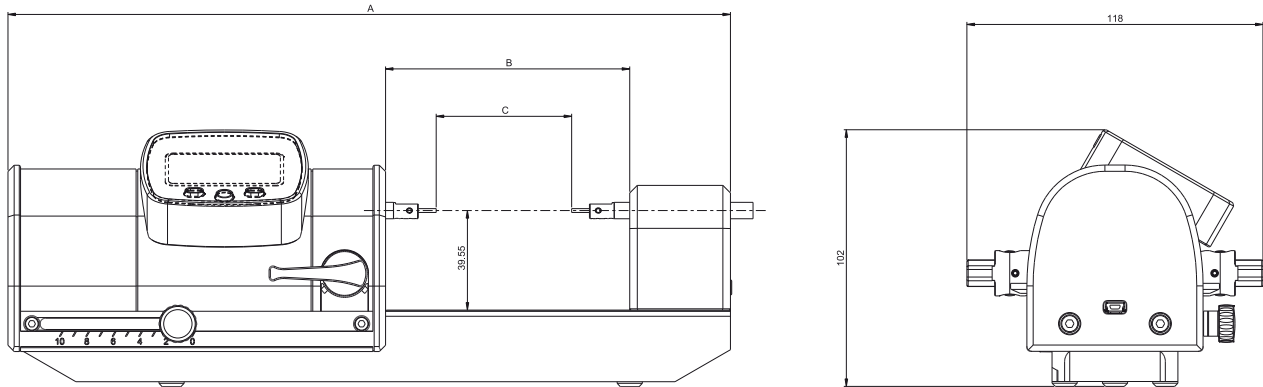


Bench table

PS16 V2

DIMENSIONAL DRAWINGS

SMART



TECHNICAL SPECIFICATIONS

External and internal measurement		808.1231	808.1232
Max. Capacity C	mm	25	50
Max. Error	µm	1.5	2.0
Repeatability	µm	0.2	0.2
Resolution	µm	0.1	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

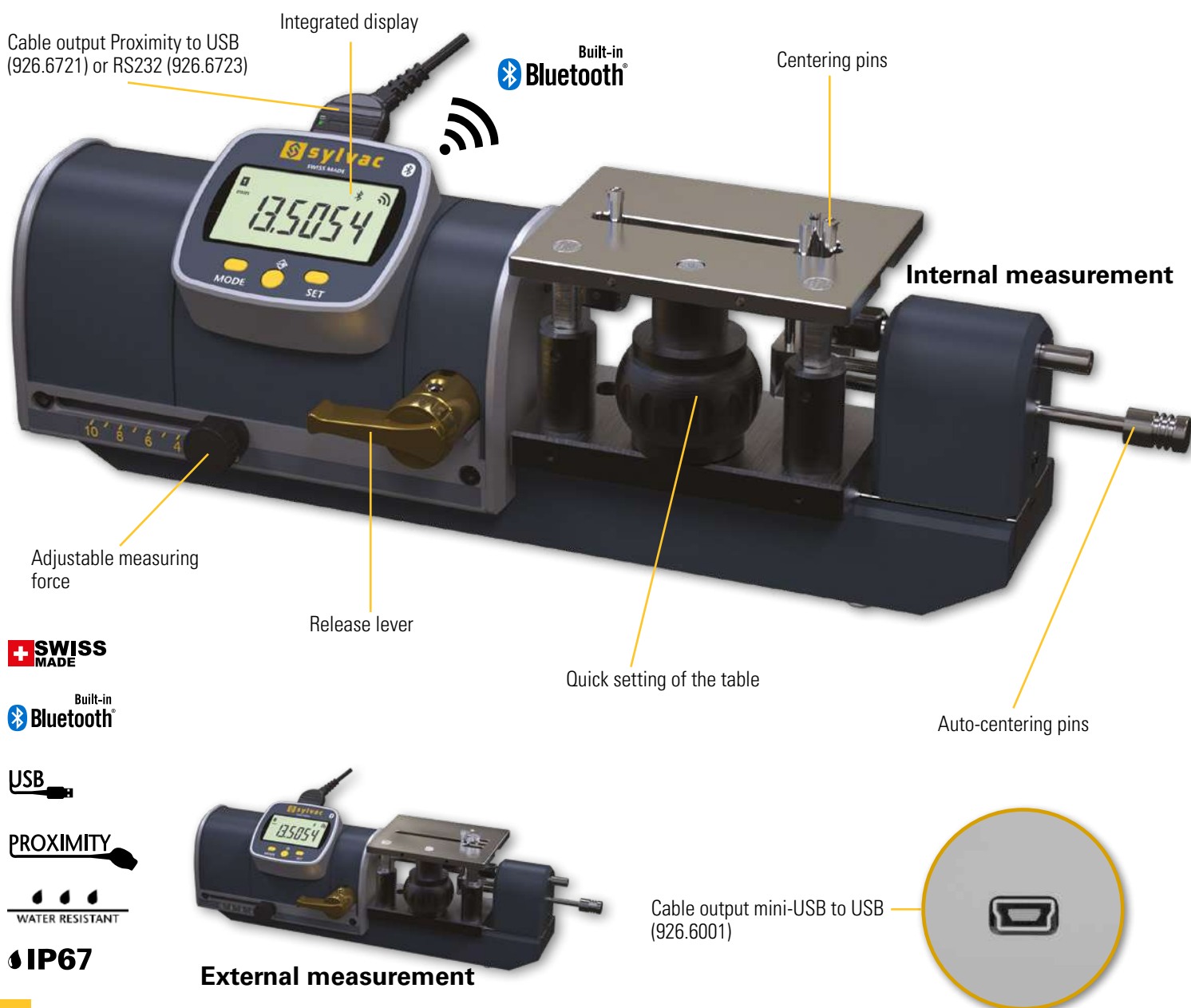
Bench table

PS16 V2 LV

DESCRIPTION

SMART

- LV version are designed to check internal and external dimensions up to 70 mm (depends on model)
- **Integrated Bluetooth® Wireless technology**
- Brand new design with integrated display resolution 0.1µm
- 2 points measurement with centering pins
- Table height adjustable up to 20mm
- Adjustable measuring force
- Led tolerances status
- Data output USB and Proximity
- Standard measuring anvils 0.4 mm

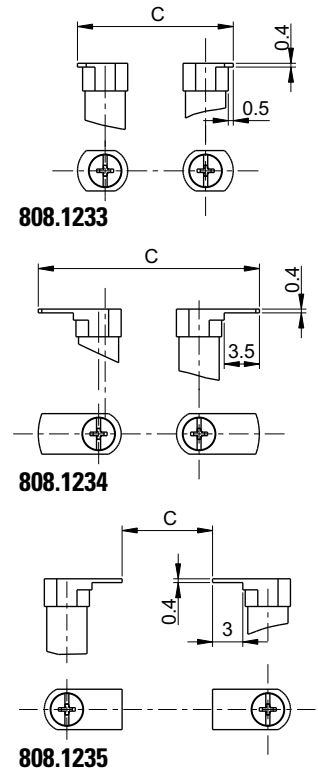
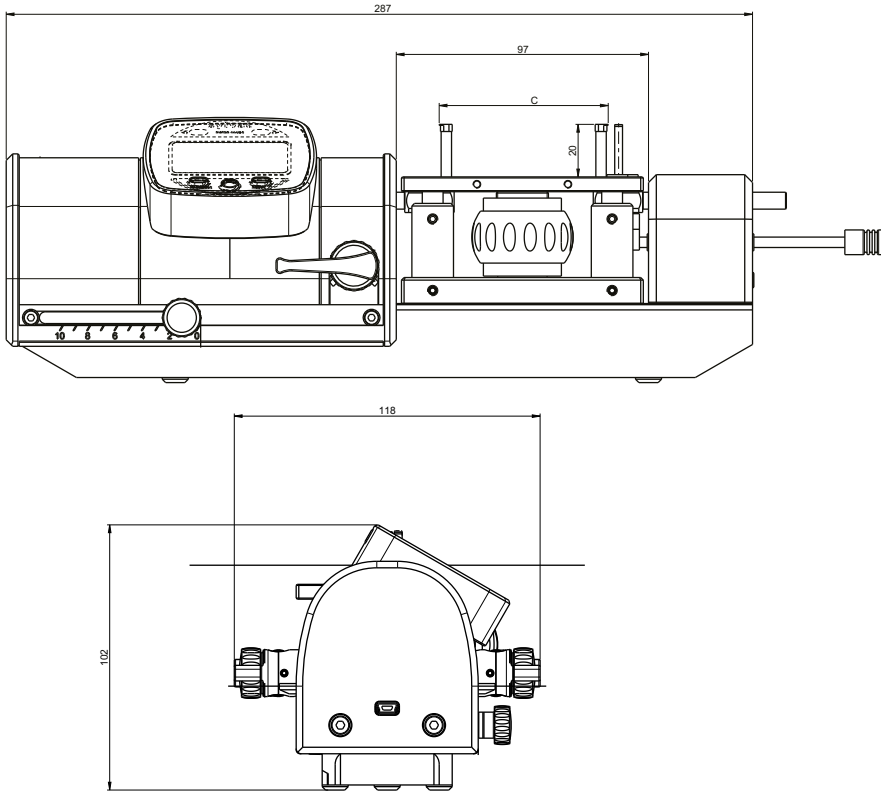


Bench table

PS16 V2 LV

DIMENSIONAL DRAWINGS

SMART



TECHNICAL SPECIFICATIONS

		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	6.0	6.0	6.0
Repeatability	µm	1.5	1.5	1.5
Resolution	µm	0.1	0.1	0.1
Measuring force (Adjustable)	N	0.1 - 0.6 ¹⁾		
Weight	kg	5.1	5.1	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

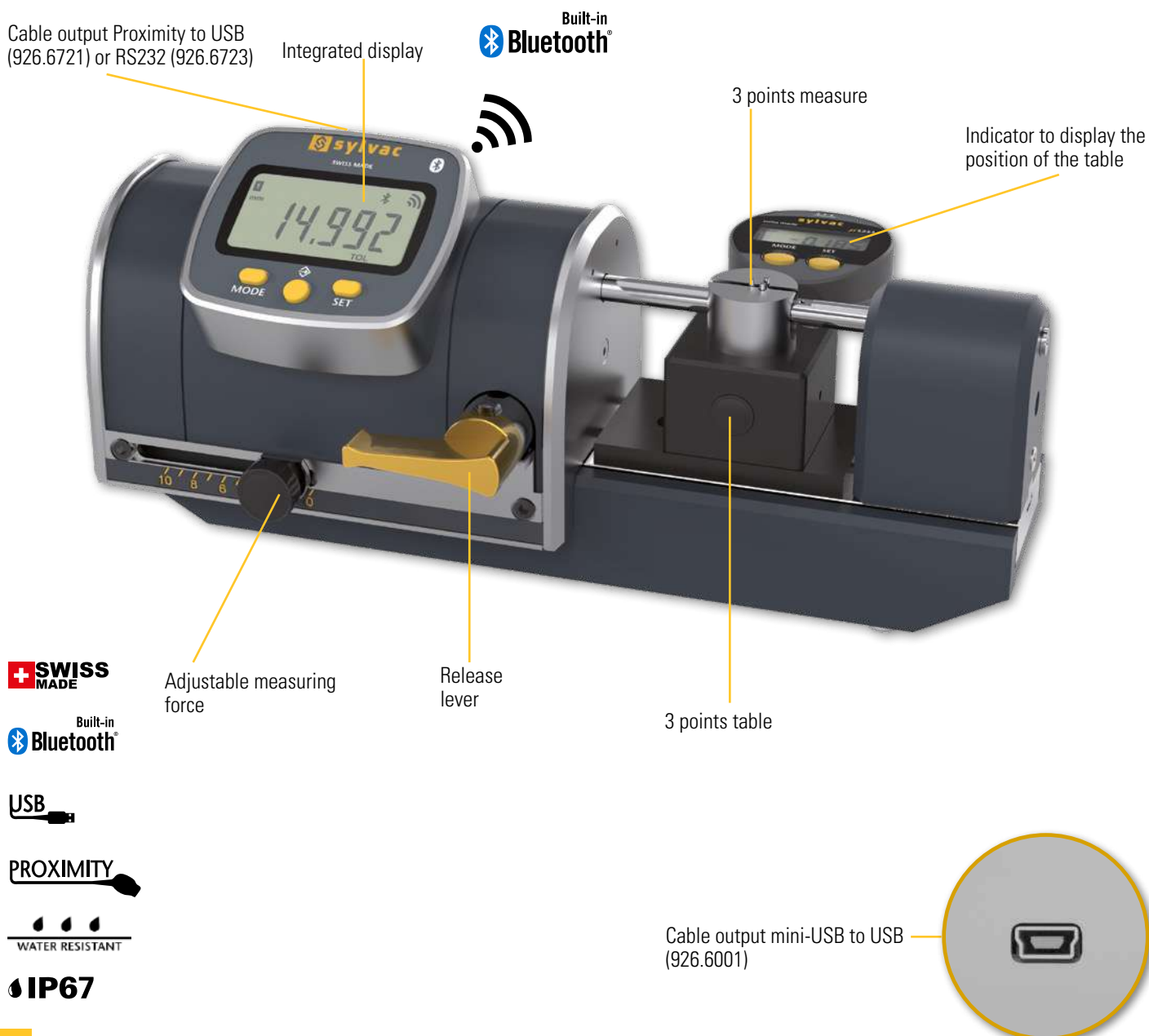
Bench table

PS16 V2 3-Points

DESCRIPTION

SMART

- 3 points version are designed to check internal dimensions of 0.8mm up to 12.5mm
- **Integrated Bluetooth® Wireless technology**
- Customized version based on the components to measure available on request (provide drawing)
- 3-points measurement with exact calculation of the diameter by electric function
- Calibration with two setting rings corresponding to the diameters MIN and MAX of the measuring range
- Table with fine adjustment in Z axis (height), position adjustable on 0-3 mm wit indicator.
- Adjustable measuring force
- Led tolerances status
- Data output USB and Proximity
- Set including: bench table PS16VP25 with integrated probe, table, anvils and 2 setting rings

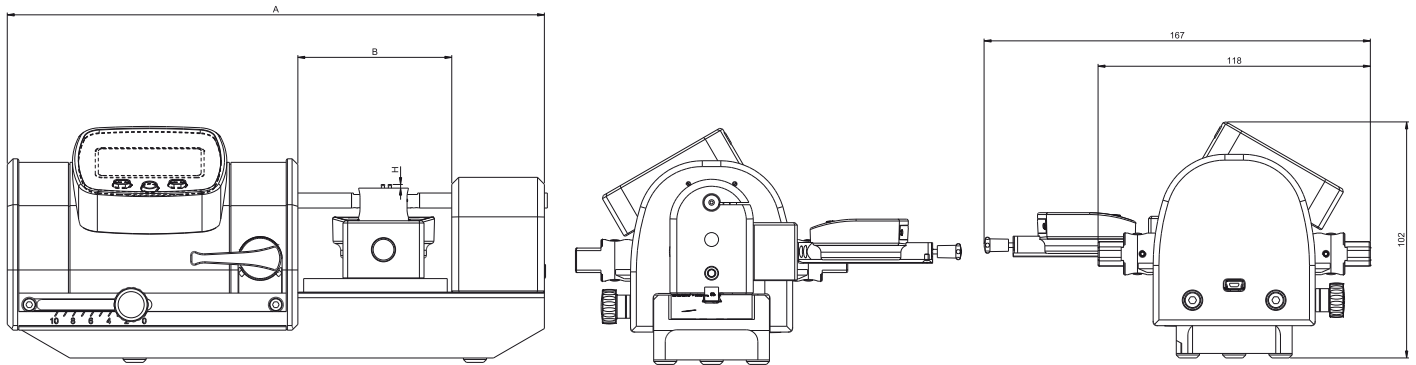


Bench table

PS16 V2 3-Points

DIMENSIONAL DRAWINGS

SMART



TECHNICAL SPECIFICATIONS

External and 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

- Goutte version designed to measure small pivot on watch plates (gouttes) or on parts requiring an important clearance to load the components on the table
- **Integrated Bluetooth® Wireless technology**
- Adjustable and retractable table with a lever allowing to place and bring the piece in measuring position
- Quick and simple adjustment of the release table and the withdrawal of the key
- Customized anvils manufactured based on the components to measure available on request (provide drawing)
- Adjustable measuring force
- Led tolerances status
- Data output USB and Proximity
- Set including: bench table, special table and anvils

Cable output Proximity to USB
(926.6721) or RS232 (926.6723)

Integrated display

Built-in
Bluetooth®

Adjustment withdrawal
of the key

Quick and simple adjustment
of the release table

Release
lever

Quick release of the table

**SWISS
MADE**

Built-in
Bluetooth®

USB

PROXIMITY

WATER RESISTANT

IP67

Cable output mini-USB to USB
(926.6001)

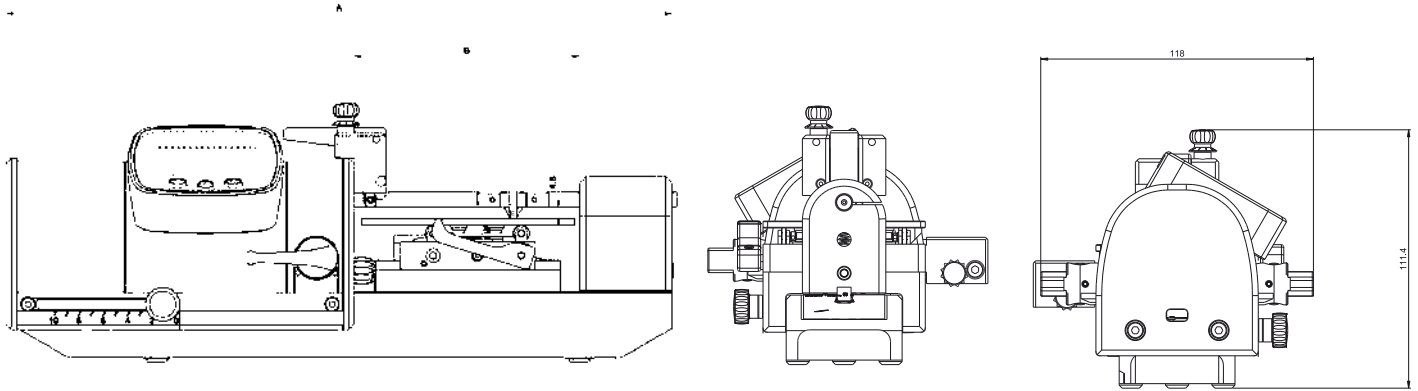


Bench table

PS16 V2 Goutte

DIMENSIONAL DRAWINGS

SMART



TECHNICAL SPECIFICATIONS

External measurement		808.5213	808.5413
Max. Capacity C	mm	25	50
Quick clearance	mm	7	7
Measuring range E	mm	3	3
Resolution	µm	0.1	0.1
Max. Error	µm	2.5	3.5
Repeatability	µm	0.5	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	Dial gauge holder (display height / depth)			•		
908.2198	Replacement lapping stone for 908.2199	•	•			•
908.2199	Lapping device (3 stones and lapping liquid included)	•	•			•
908.2196	Setting ring Ø20mm			•		
908.2197	Setting ring Ø30mm			•		

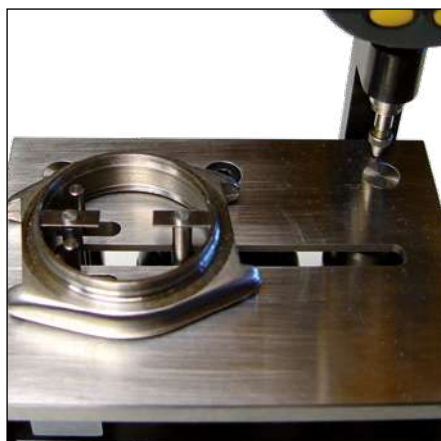
ANVILS

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

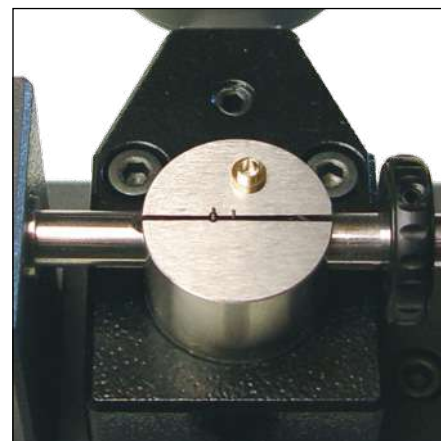
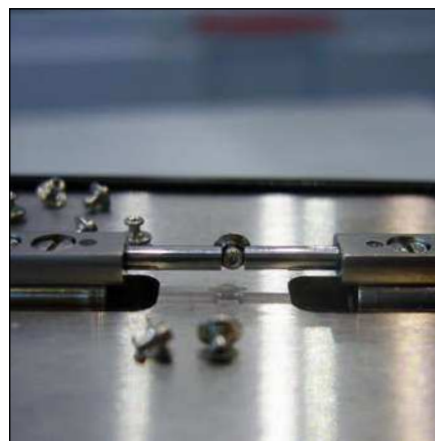


Table and anvils for internal measurement in 3 - points 1.3 - 2.5 mm



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



Measurement of a small external diameter

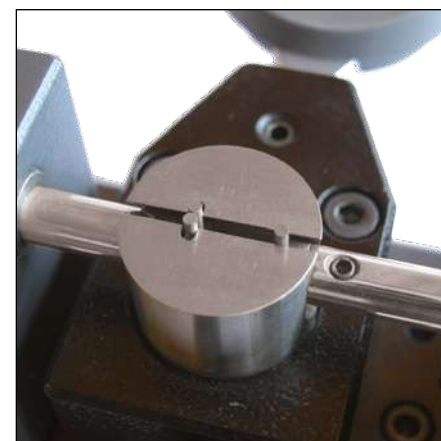


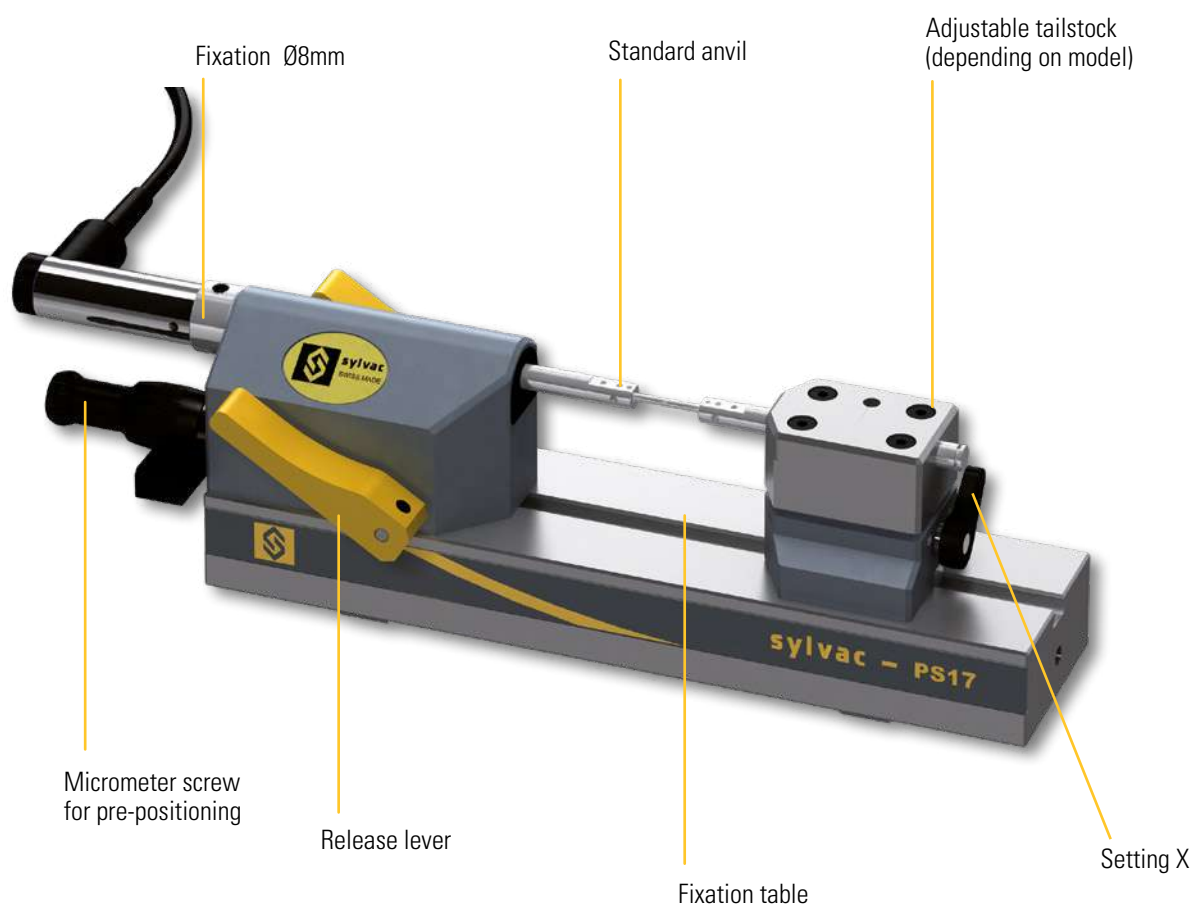
Table and anvils for internal measurement in 3 - points 2.5 - 4 mm

Bench table

PS17 VS

DESCRIPTION

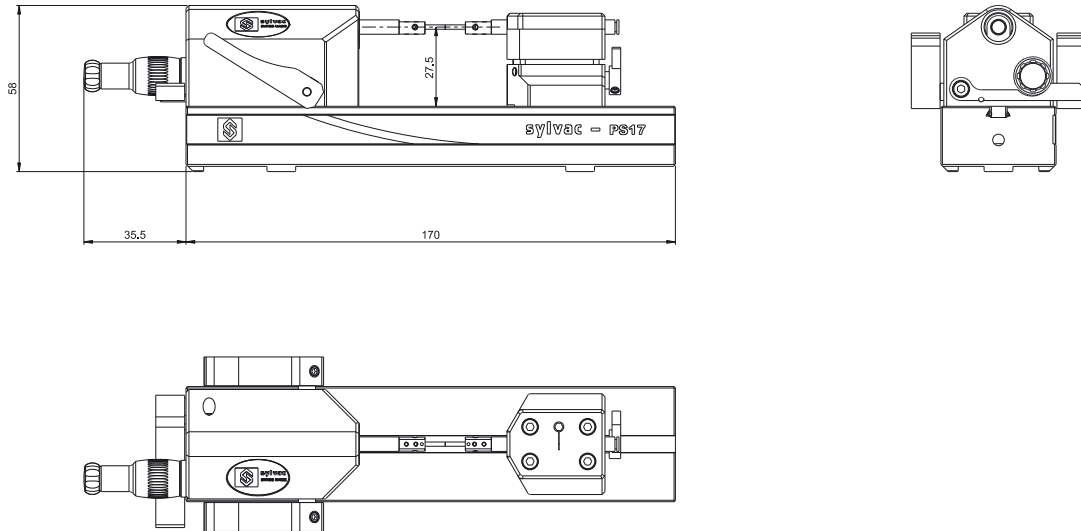
- Measuring bench with great flexibility of use for external dimensions
- Tailstock adjustable in X axis (and in Z, depends on model)
- Accurate micrometer screw for pre-positioning
- Compatibility with Sylvac anvils (Ø1.5mm) and Cary type anvils
- Several accessories available



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 $\varnothing 1.5$ mm		•
Compatibility with Cary		•
Micrometer screw		•

STANDARD DELIVERY

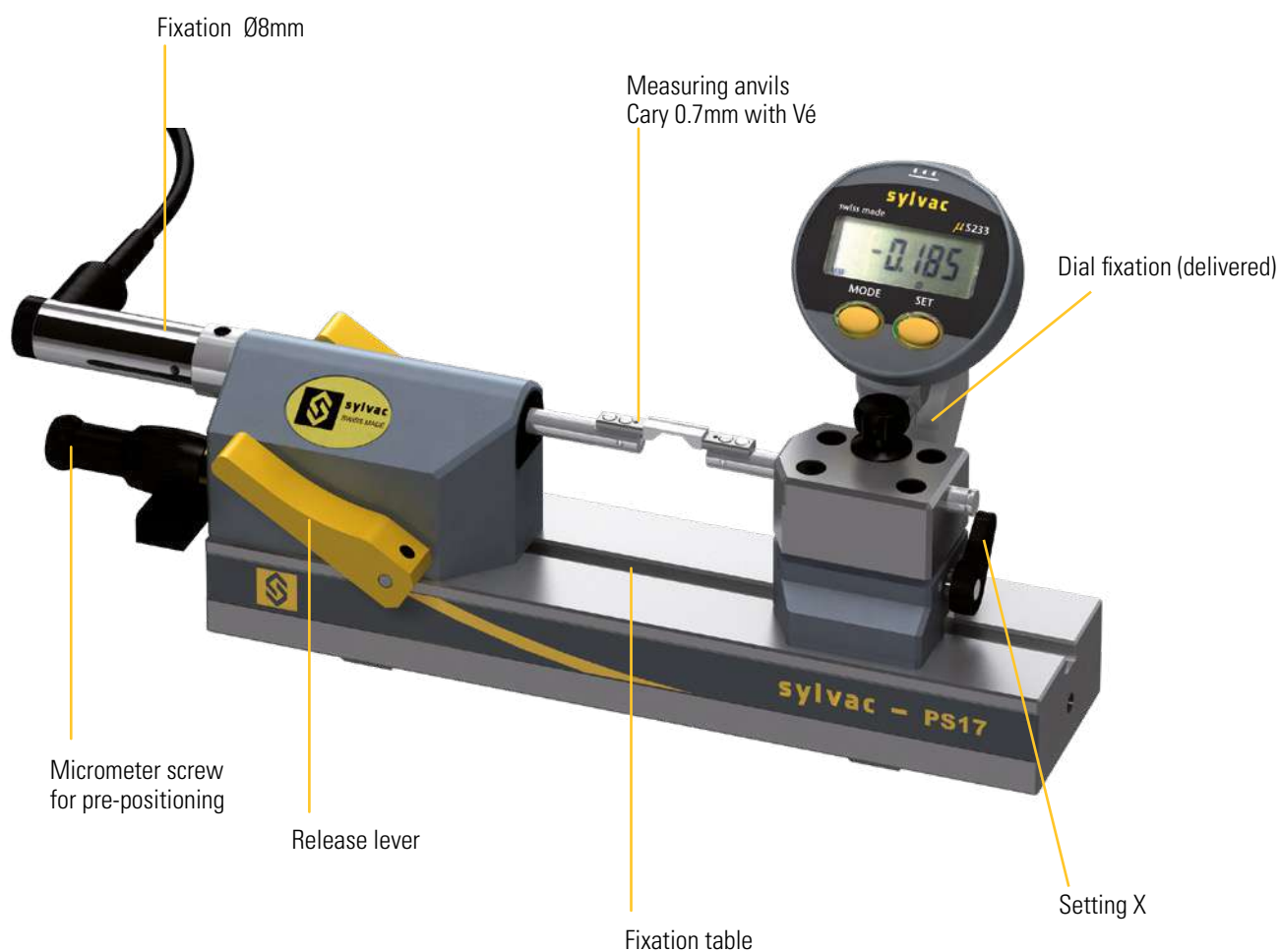
- Instrument according to technical specifications
- Instruction manual
- Measuring anvils $\varnothing 1.5$ mm (908.2175)
- Dust cover

Bench table

PS17 Entre-portée

DESCRIPTION

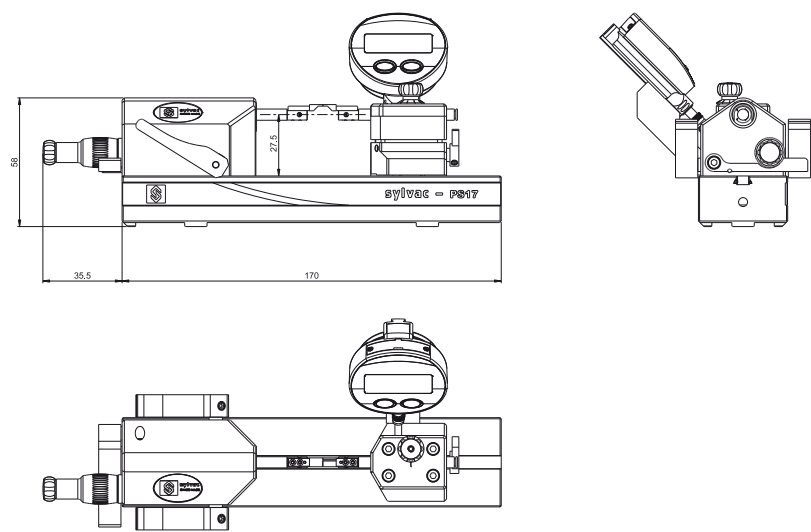
- Measuring bench with great flexibility of use for external dimensions
- Tailstock adjustable in X axis and in Z
- Mini indicator to display the position in Z axis (height) of the tailstock
- Delivered with carbide anvils 0.7mm with 90°V for the measure of distance width
- Accurate micrometer screw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



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



			PS17 VS / VP
	N°	Designation	
	908.2290	Supporting table adjustable XYZ	
	908.2301	Supporting table adjustable XZ	
	908.2296	Floating table	

ACCESSORIES



			PS17 VS / VP
	N°	Designation	
	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)	

ANVILS

Compatible anvils list at the end of this chapter.

Bench table

PS17

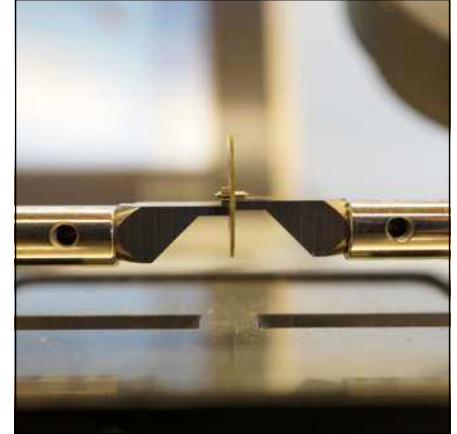
APPLICATIONS STANDARD



Measure of a small part on a floating table



Multifunctional control station



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

Bench table

PS15/PS16/PS17

ANVILS

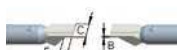
Anvils Ø1.5



N°	Designation	B	F	C	PS15 BH	PS15 BV	PS15 BV+	PS16 V2	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	•		•	•	•
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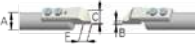
908.2202	Knife-shaped anvils standard TC 1.5 mm	1.5	2.2	4	•		•	•	•
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Bench table

PS15/PS16/PS17

ANVILS

Anvils Cary

		B	F	C	PS15 BH	PS15 BV	PS15 BV+	PS16 V2	PS 17
	N°	Designation							
	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	Cylindrical anvils TC Ø 3.0 mm	1.50	2.2	4	●		●	●

I

OPTICAL MEASURING MACHINES

SYLVAC SCAN

Dedicated to fast, precise, non-contact measurement of cylindrical parts. Our new SCAN machines reproduce high resolution images of the components profile in just a few seconds. Thanks to the easy to use Reflex-SCAN software, parts can be measured with just a click of a button, offering over 150 different types of measurement features.

SYLVAC VISIO

Our 2.5D video measuring systems equipped with manual XY stage and manual/motorized optical zoom allow to quickly measure most of the industrial components based on the live image of the workpiece displayed on the software.

Our SCAN and VISIO machines are designed for use in the workshop or laboratory. Discover them without further delay !



Optical measurement

SYLVAC-SCAN

DESCRIPTION

52 REFLEX-CLICK

- Horizontal SCAN machine, measuring in landscape format, the same as the parts are produced
- Robust construction with granite column for use in workshop or control laboratory
- Concept Reflex SCAN patented for measuring cylindrical workpieces without preprogramming
- Measurements performed in seconds by a single click
- Load the part, click the button and you get all the main values directly!
- Automatic recognition of recorded parts already measured
- Easy daily calibration thanks to the integrated master
- Quick return of investment



Sylvac Reflex SCAN Software

One click measurement



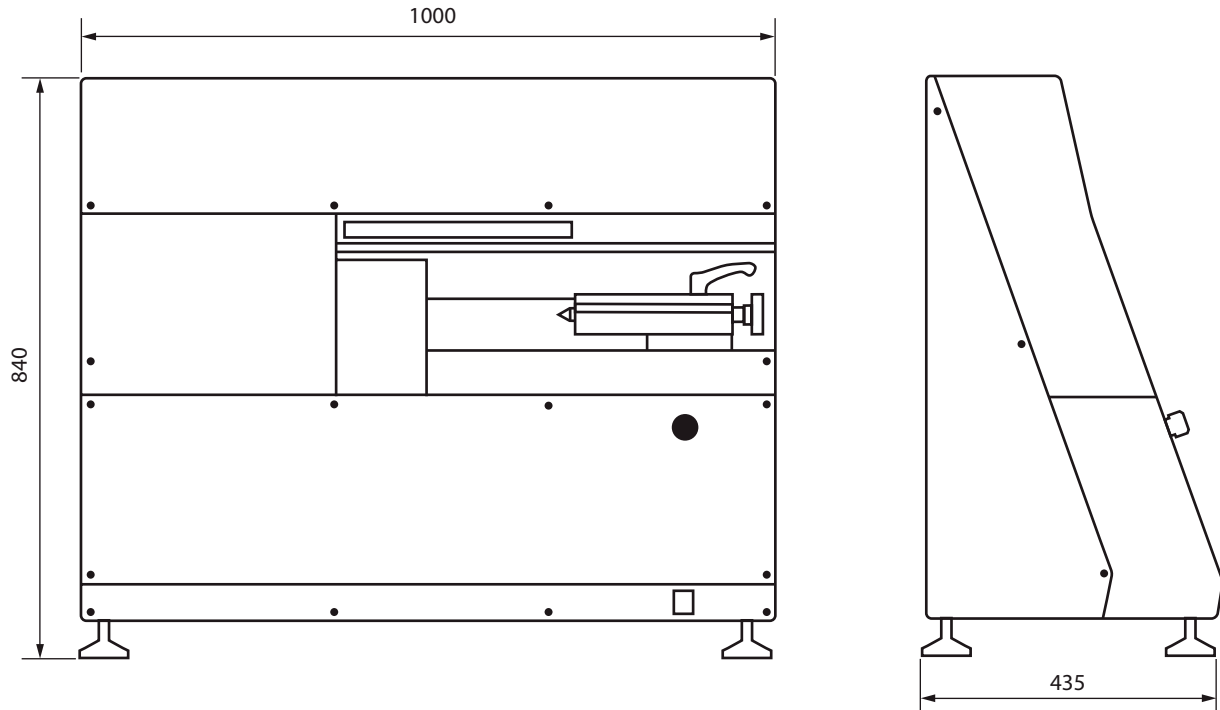
For turned parts

Optical measurement

SYLVAC-SCAN

DIMENSIONAL DRAWINGS

52 REFLEX-CLICK



TECHNICAL SPECIFICATIONS

		902.5520		902.5521	
		Diameter	Length	Diameter	Length
Measuring range	mm	0.5 ÷ 52	300	0.5 ÷ 52	300
Resolution up to	mm	0.0001	0.0005	0.0001	0.0005
Max. error	µm	1.5 + D/100	4 + L/100	1.5 + D/100	4 + L/100
Repeatability	µm	0.6	2.5	0.6	2.5
Headstock		Non-Rotating headstock for static measurements		Rotary headstock for static and dynamic measurements	
Max. weighth of part	kg	4			
Machine's weight	kg	103			

STANDARD DELIVERY

- Instrument according to technical specifications
- Accessories : 2x 902.6202, 902.6161, 902.6212
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software
- Manual

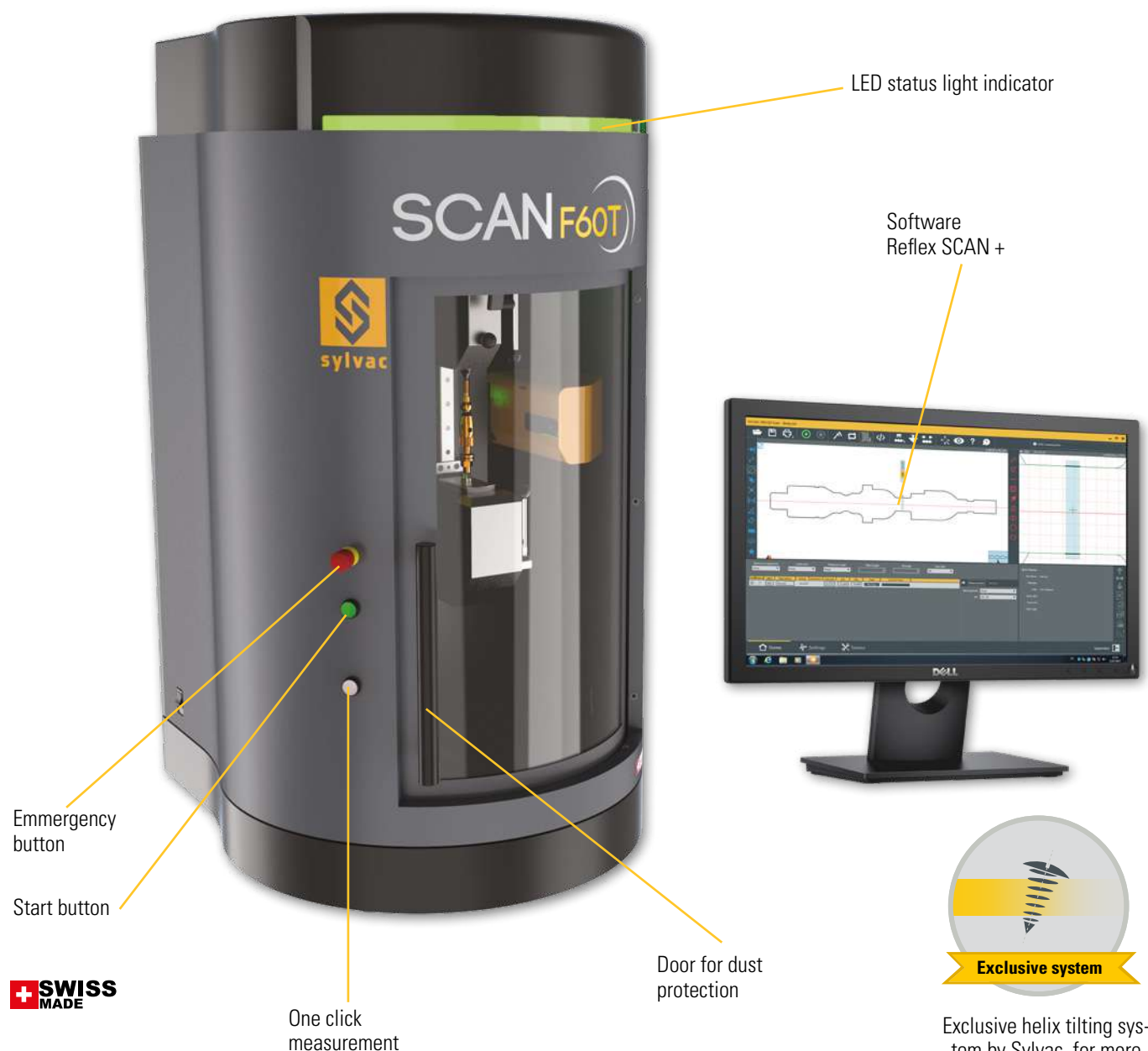
Optical measurement

SYLVAC-SCAN

DESCRIPTION

F60 & F60T

- Concept Reflex SCAN patented for measuring cylindrical workpieces without preprogramming
- Part measurement from **0.2 to 64mm diameter and up to 300mm** length
- Complete 2D part scan in <3 seconds !
- Reduce inspection time, scrap and increase productivity
- Exclusive helix tilting system for thread measurements (only on T models)
- Quick return of investment, typically < 6 months
- Software Reflex SCAN + : advanced programming and functions
- Quick release tooling

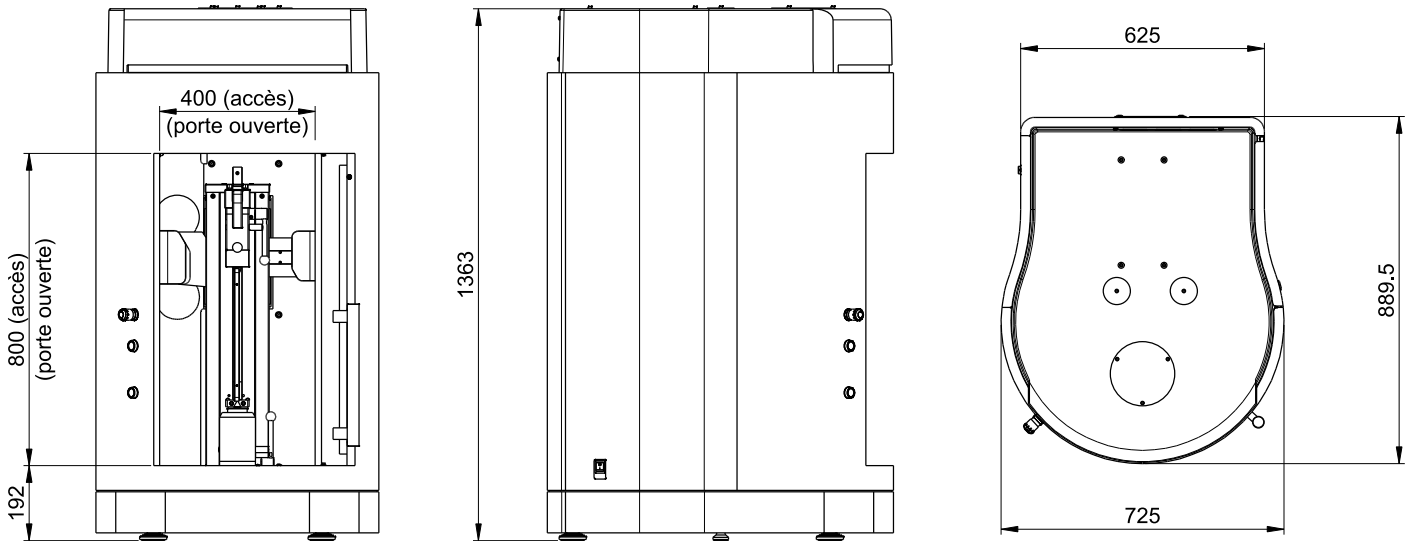


Optical measurement

SYLVAC-SCAN

DIMENSIONAL DRAWINGS

F60 & F60T



TECHNICAL SPECIFICATIONS

		902.4060		902.4065	
		Sylvac SCAN F60		Sylvac SCAN F60T	
		Diameter	Length	Diameter	Length
Measuring range	mm	64	300	64	300
Resolution up to	mm	0.0001	0.0001	0.0001	0.0001
Max. error	µm	(1 + D[mm]/100) µm	(3 + L[mm]/200) µm	(1 + D[mm]/100) µm	(3 + L[mm]/200) µm
Repeatability	µm	0.5	1.0	0.5	1.0
Holding capacity diameter	mm	120	315	120	315
Headstock		Rotary headstock for static and dynamic measurements			
Tilting for thread measurement		-		● 30°	
Max. weigth of part	kg	10			
Machine's weight	kg	265			

STANDARD DELIVERY

- Instrument according to technical specifications
- Accessories : 2x 902.6202, 902.6161, 902.6212
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Manual

Optical measurement

SYLVAC-SCAN

DESCRIPTION

F60L & F60LT

- Concept Reflex SCAN patented for measuring cylindrical workpieces without preprogramming
- Part measurement from **0.2 to 64mm diameter and up to 500mm** length
- Complete 2D part scan (500mm) in <5 seconds !
- Reduce inspection time, scrap and increase productivity
- Exclusive helix tilting system for thread measurements (only on T models)
- Quick return of investment, typically < 6 months
- Software Reflex SCAN + : advanced programming and functions
- Quick release tooling

Version L !

LED status light indicator



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

Software Reflex SCAN +

One click measurement



**SWISS
MADE**



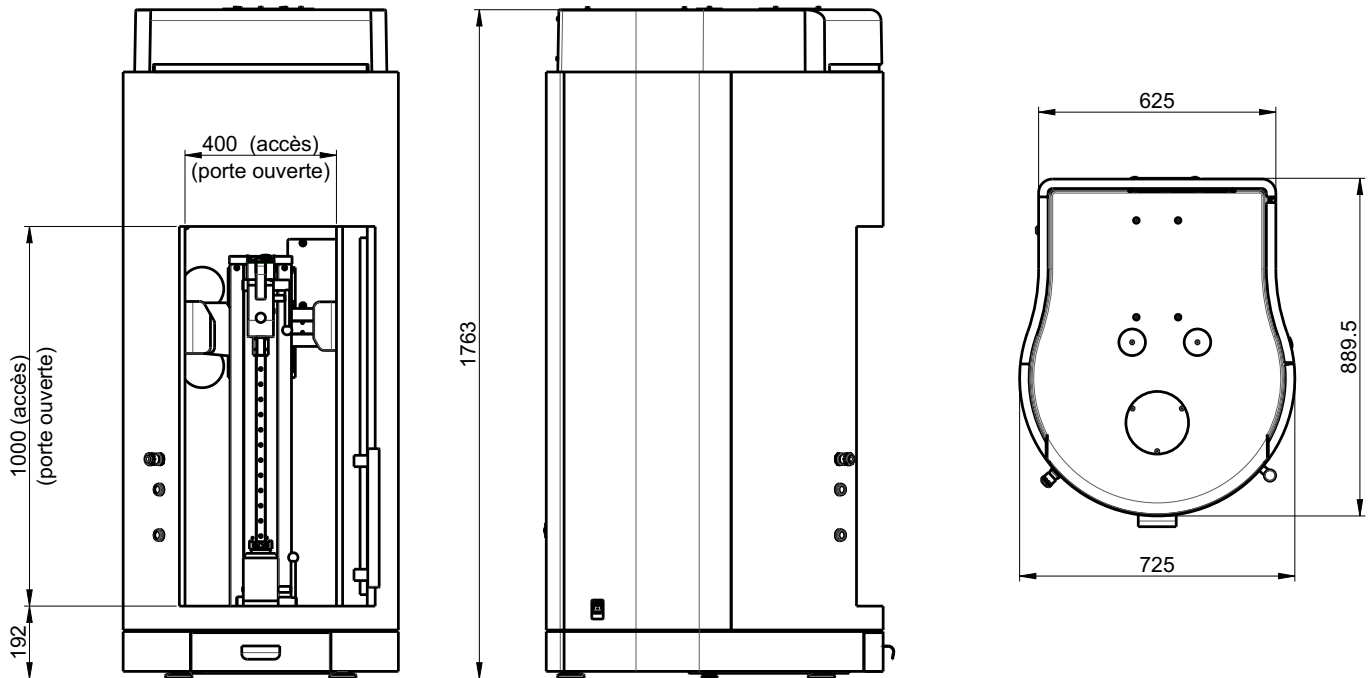
Door for dust protection

Optical measurement

SYLVAC-SCAN

DIMENSIONAL DRAWINGS

F60L & F60LT



TECHNICAL SPECIFICATIONS

		902.4062		902.4067	
		Sylvac SCAN F60L		Sylvac SCAN F60LT	
		Diameter	Length	Diameter	Length
Measuring range	mm	64	500	64	500
Resolution up to	mm	0.0001	0.0001	0.0001	0.0001
Max. error	µm	(1 + D[mm]/100) µm	(3 + L[mm]/200) µm	(1 + D[mm]/100) µm	(3 + L[mm]/200) µm
Repeatability	µm	0.5	1.0	0.5	1.0
Holding capacity diameter	mm	120	500	120	500
Headstock		Rotary headstock for static and dynamic measurements			
Tilting for thread measurement		-		● 30°	
Max. weigth of part	kg	10			
Machine's weight	kg	330			

STANDARD DELIVERY

- Instrument according to technical specifications
- Accessories : 2x 902.6202, 902.6161, 902.6212
- Computer with screen, keyboard and mouse

- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Manual

- Concept Reflex SCAN patented for measuring cylindrical workpieces without preprogramming
- Part measurement from **0.2 to 145mm diameter and up to 615mm** length
- Complete 2D part scan
- Reduce inspection time, scrap and increase productivity
- Quick return of investment
- Software Reflex SCAN + : advanced programming and functions
- Quick release tooling

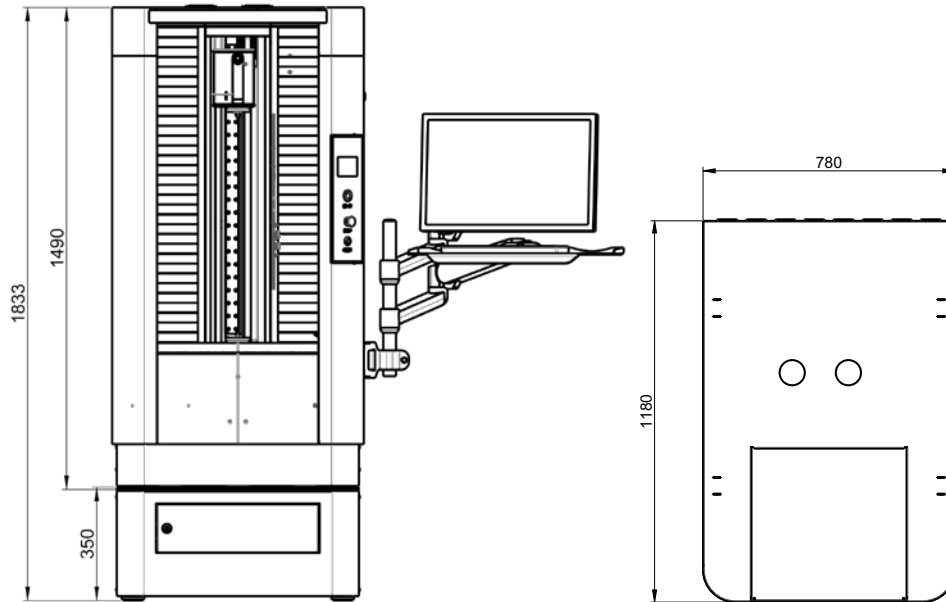


Optical measurement

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	$(1.5 + D[\text{mm}]/100) \mu\text{m}$	$(4 + L[\text{mm}]/200) \mu\text{m}$
Repeatability	µm	$2\sigma=0.5$	$2\sigma=1.0$
Holding capacity diameter	mm	254	615
Rotation resolution	°	0.0003	
Axial measuring speed	mm/s	80	
Axial positioning speed	mm/s	Up to 200	
Rotational meas. speed	°/s	360	
Headstock		Rotary headstock for static and dynamic measurements	
Max. weight of part	kg	60	
Machine's weight	kg	530	

STANDARD DELIVERY

- Instrument according to technical specifications
- Adapter for Morse 2 (902.6260)
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Manual

Optical measurement

SYLVAC-SCAN

DESCRIPTION

S145L

- Concept Reflex SCAN patented for measuring cylindrical workpieces without preprogramming
- Part measurement from **0.2 to 145mm diameter and up to 1280mm** length
- Complete 2D part scan
- Reduce inspection time, scrap and increase productivity
- Quick return of investment
- Software Reflex SCAN + : advanced programming and functions
- Quick release tooling

Version L !

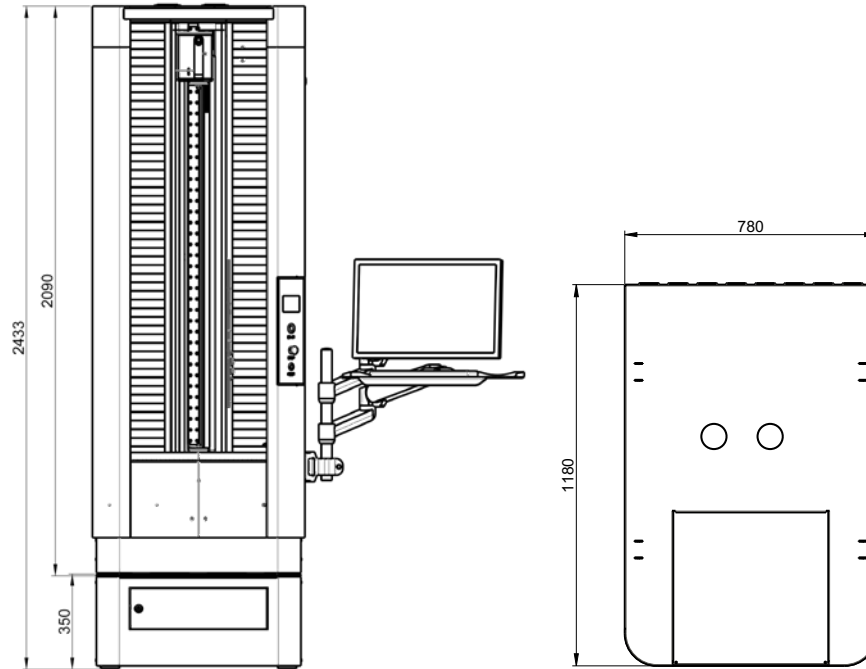


Optical measurement

SYLVAC-SCAN

DIMENSIONAL DRAWINGS

S145L



TECHNICAL SPECIFICATIONS

		902.4147	
		Sylvac SCAN S145	
		Diameter	Length
Measuring range	mm	145	1280
Resolution up to	mm	0.0001	0.0001
Max. error	µm	$(1.5 + D[\text{mm}]/100) \mu\text{m}$	$(4 + L[\text{mm}]/200) \mu\text{m}$
Repeatability	µm	$2\sigma=0.5$	$2\sigma=1.0$
Holding capacity diameter	mm	254	1280
Rotation resolution	°	0.0003	
Axial measuring speed	mm/s	80	
Axial positioning speed	mm/s	Up to 200	
Rotational meas. speed	°/s	360	
Headstock		Rotary headstock for static and dynamic measurements	
Max. weight of part	kg	60	
Machine's weight	kg	650	

STANDARD DELIVERY

- Instrument according to technical specifications
- Adapter for Morse 2 (902.6260)
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Manual

Optical measurement

SYLVAC-SCAN

TECHNICAL SPECIFICATIONS

SOFTWARES

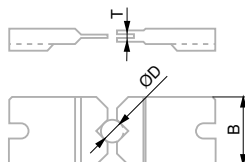
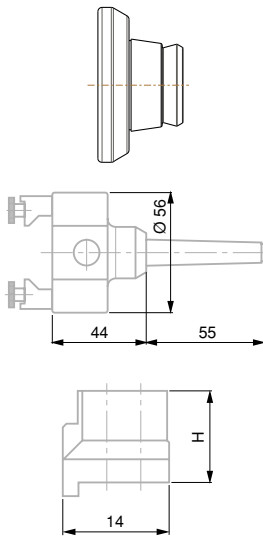
	FUNCTIONS	
	SYLVAC REFLEX SCAN	SYLVAC REFLEX SCAN+
Automatic measurement of the main features (diameters, lengths, angles, radius)	•	•
Automatic parts / program recognition	•	•
Off-line programming		•
Advanced dust filtering		•
Statistic view		•
CAD import		•
Reports editor	•	•
Data export	•	•
SPC basic calculations	•	•
Script function		option
SPC software	on request	on request
Access management - security lever	1	multiple

	GEOMETRICAL TOLERANCING - FEATURES SUMMARY	
	SYLVAC REFLEX SCAN	SYLVAC REFLEX SCAN+
Diameters	•	•
Lengths, heights, distances	•	•
Angles, chamfers	•	•
Radii	•	•
Threads (parallel)	•	•
Advanced threads measurement (root detail, taper, multistarts, ball screws, worm screws, special threads)		•
Perpendicularity		•
Form deviation		•
Rotational diameters	basic	advanced
Run out	basic	advanced
Concentricity	basic	advanced
Roundness	•	•
Cylindricity	•	•
Across flats	•	•
Straightness		•
Interrupted parts (splines, turbines)		•

Optical measurement

SYLVAC-SCAN

ACCESSORIES



		Morse 2 SCAN 52 / F60	Scan S145
902.6260	Adapter MK2 for SCAN S145		•
902.6220	Two-jaw gripper External clamping for manual use	• Requires 902.6360	• Requires 902.6260
902.6231 H=22	Raising blocks for external jaws, in pairs	• (Morse 1 requires 902.6220)	• Requires 902.6260
902.6228	Magnetic clamping plate Ø0-24 mm	•	• Requires 902.6260
902.6141 0÷6 mm T=1.5	External jaws, in pairs	• For 902.6220 (also for Morse 1)	•
902.6142 0÷6 mm T=3			
902.6143 6÷12 mm T=3			
902.6144 12÷18 mm T=6			
902.6145 18÷24 mm T=9			
902.6152 0÷6 mm T=6			
902.6153 0÷6 mm T=15			
902.6140 6÷12 mm T=15			

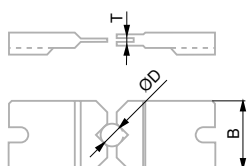
Optical measurement

SYLVAC-SCAN

ACCESSORIES

Morse 2
SCAN 52 / F60

Scan S145



902.6154

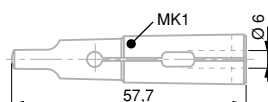
Set with:
902.6141
902.6142
902.6143
902.6144
902.6145

External jaws,
in pairs

902.6141 : Jaws dia 0-6mm, T1=1.5mm
902.6142 : Jaws dia 0-6mm, T1=1.3mm
902.6143 : Jaws dia 6-12mm, T1=3mm
902.6144 : Jaws dia 12-18mm, T1=6mm
902.6145 : Jaws dia 18-24mm, T1=9mm

•

•
Requires
902.6260

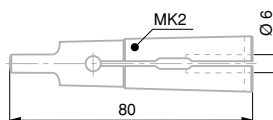


902.6250

Center
adapter with
a 6 mm dia.
coupling bore

Only for Morse 1

•
Requires
902.6260

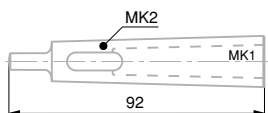


902.6251

Center adapter
with a 6 mm dia.
coupling bore

•

•
Requires
902.6260

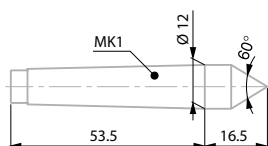


902.6360

Reduction
sleeve,
Morse 2 to 1

•

•
Requires
902.6260

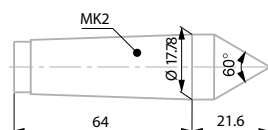


902.6000

Extra male center, 10 mm
(2 items provided with
SYLVAC-SCAN 25)

Only for Morse 1

•
Requires
902.6260

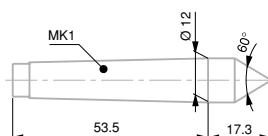


902.6202

Extra male center, 17.78 mm
(2 items provided with SYLVAC-SCAN F60 and
SYLVAC-SCAN 52 Reflex-Click)

•
Standard

•
Requires
902.6260



902.6203

Drive centre
(Diamond coated 10 mm)

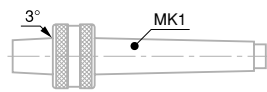
Only for Morse 1

•
Requires
902.6260

Optical measurement

SYLVAC-SCAN

ACCESSORIES



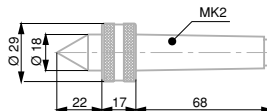
902.6160

Rotation center with a B12 male taper plus
a Morse 1 taper shank
(For added sleeves 902.6206/902.6207)

Morse 2
SCAN 52 / F60
Only for Morse 1

Scan S145

•
Requires
902.6260

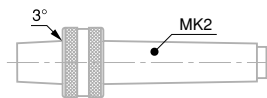


902.6161

Rotation center,
Morse 2
(1 item provided with SYLVAC-SCAN F60 and
SYLVAC-SCAN 52 Reflex-Click)

•
Standard

•
Requires
902.6260

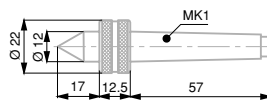


902.6162

Rotation center
with a B18
male taper plus
a Morse 2 shank

•

•
Requires
902.6260

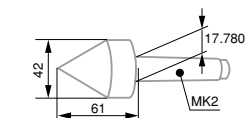


902.6163

Rotation center,
Morse 1

Only for Morse 1

•
Requires
902.6260

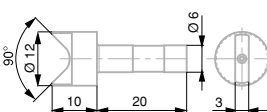


902.6380

Rotation center,
Morse 2

•

•
Requires
902.6260

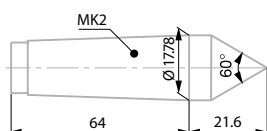


902.6204

Female center,
10 mm dia.

•
Requires
902.6251
(also for Morse 1, with
902.6250)

•
Requires
902.6260



902.6212

Extra male center, 17.78 mm, diamond coated
(1 item provided with SYLVAC-SCAN F60 and
SYLVAC-SCAN 52 Reflex-Click)

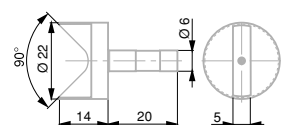
•
Standard

•
Requires
902.6260

Optical measurement

SYLVAC-SCAN

ACCESSORIES



902.6205

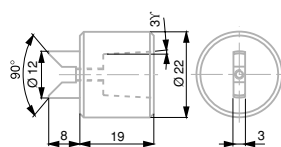
Female center,
20 mm dia.

**Morse 2
SCAN 52 / F60**

•
Requires
902.6251
(Morse 1 requires
902.6250)

Scan S145

•
Requires
902.6260

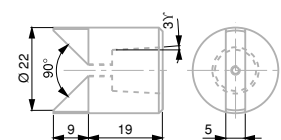


902.6206

Female center,
10 mm dia.
Also with internal
B12 taper

Only for Morse 1
(requires 902.6160)

•
Requires
902.6260

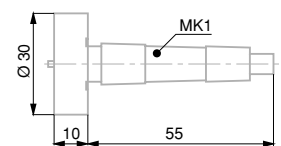


902.6207

Female center,
12 mm dia.
Also with internal
B12 taper

Only for Morse 1
(requires 902.6160)

•
Requires
902.6260

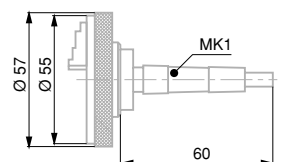


902.6208

Platten,
30 mm dia.

Only for Morse 1

•
Requires
902.6260

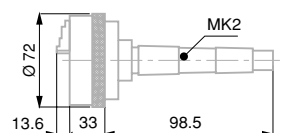


902.6300

3-jaw chuck, clamping range 1÷15 mm
(Clamping capacity: outside 1÷15 mm
inside 11÷26 mm)

•
Requires
902.6360
(also for Morse 1)

•
Requires
902.6260



902.6301

3-jaw chuck with Morse 2
taper shank, clamping range 2÷50 mm
(Clamping capacity: outside 2÷50 mm
inside 23÷50 mm)

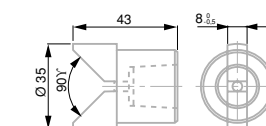
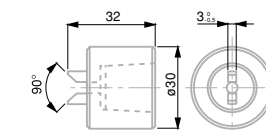
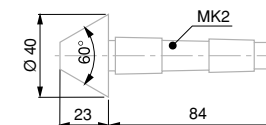
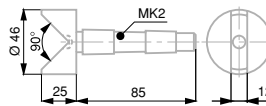
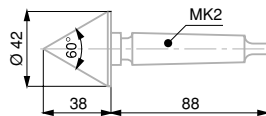
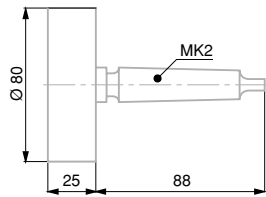
•

•
Requires
902.6260

Optical measurement

SYLVAC-SCAN

ACCESSORIES

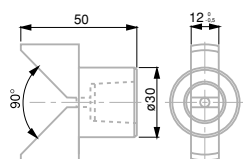


		Morse 2 SCAN 52 / F60	Scan S145
902.6209	Platten, 80 mm dia. with a Morse 2 taper shank	•	• Requires 902.6260
902.6210	Drive centre, Ø 40 mm. Diamond coated with a Morse 2 taper shank	•	• Requires 902.6260
902.6340	Female centre, 40 mm dia. with a Morse 2 taper shank	•	• Requires 902.6260
902.6341	Male centre, 15÷40 mm dia. with a Morse 2 taper shank	• Requires 902.6162	• Requires 902.6260
902.6310	Female center, 10 mm dia., with a B18 internal taper	• Requires 902.6162	• Requires 902.6260
902.6311	Female center, 30 mm dia., with a B18 internal taper	• Requires 902.6162	• Requires 902.6260

Optical measurement

SYLVAC-SCAN

ACCESSORIES



902.6312

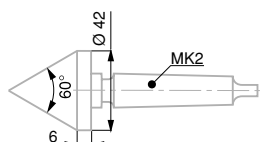
Female center, 45 mm dia.,
with a B18
internal taper

Morse 2
SCAN 52 / F60

•
Requires
902.6162

Scan S145

•
Requires
902.6260



902.6410

Drive centre - diamond coated,
42 mm dia. max.

•

•
Requires
902.6260

902.6608

Option I/O for robotisation

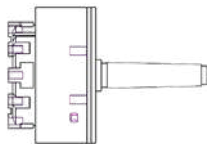
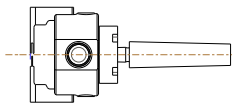
•

•
Requires
902.6260

Optical measurement

SYLVAC-SCAN

ACCESSORIES



		Morse 2 SCAN 52 / F60	Scan S145
902.6270	2 jaw chuck Ø 0-18mm	•	• Requires 902.6260
902.6302	Pneumatic 4 jaw chuck Ø 1-63mm	•	• Requires 902.6260



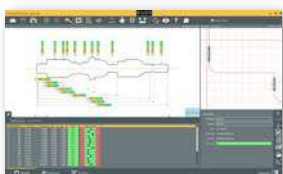



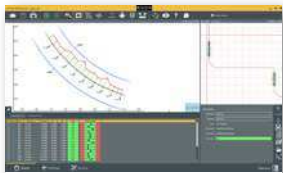
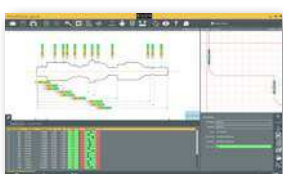


Our Sylvac Scan range can be fully automated with a robot that can load all your workpieces for you directly on the machine for measurement. Available on request.

Optical measurement

SYLVAC-SCAN

ACCESSORIES

			SCAN 52	SCAN F60	SCAN S145
	***	Reflex SCAN Standard (delivered with 902.5520 & 902.5521)	•		
	***	Reflex SCAN+ Standard (delivered with 902.4060, 902.4062, 902.4065 & 902.4067)		•	•
	902.7015	Reflex SCAN+ Offline Software		•	•
	902.7016	Reflex SCAN+ Script programming		•	•
 	902.7017	Reflex-SCAN+ Automation software module (Option, require Reflex SCAN+)		•	•
	902.7018	Reflex-SCAN+ CAD compare software (Option, require Reflex SCAN+)		•	•
	902.7020	Reflex-SCAN+ Offline CAD compare software (Option, require Reflex SCAN+)		•	•
	902.7021	Reflex-Scan+ "PRO" With advanced feature wizards to build custom features and threads		•	•

Optical measurement

SYLVAC-SCAN

ACCESSORIES

			SCAN 52	SCAN F60	SCAN S145
	902.6012	Gold demo part	•	•	•
	902.6013	Gold demo part for threads	•	•	•
	902.6014	Gold demo part XL			•
	902.6600	Table for Sylvac SCAN F60 (85x85x70cm)		•	
	902.6601	Furniture for Sylvac SCAN F60 storage for PC, drawer with lock and arm for keyboard and screen		• Not for L versions	
	902.6605	Height-adjustable table (71-1140mm) for keyboard, screen and mouse (80x60mm)		•	
	902.6607	Accessories tidy insert for drawer (combined with 902.6601)		•	
	928.6006	Plastiform case for SCAN and VISIO	•	•	•
	902.6609	Rack	•	•	•

Optical measurement

SYLVAC-VISIO

DESCRIPTION

200 & 300 V3

- High quality 2.5D video measuring system with larger field of view up to 30x19mm (standard config 15x9.5mm)
- New software layout with auto toggle screens live/schematic and touch compatible
- Full HD Camera with improved image quality
- Robust construction with stage mounted on granite base and vertical column in granite
- Manual table stage releasable for quick XY movement, fitted with high precision encoders
- High quality bearing guidance for better accuracy
- Optics including CMOS camera and Navitar zoom (manual or motorised)
- Programmable triple lighting: coaxial, ring light programmable by sector and diascope light
- Multilingual Sylvac-REFLEX Vista software easy to use

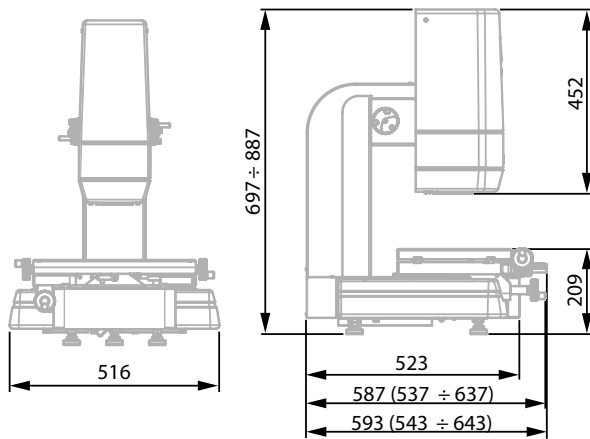


Optical measurement

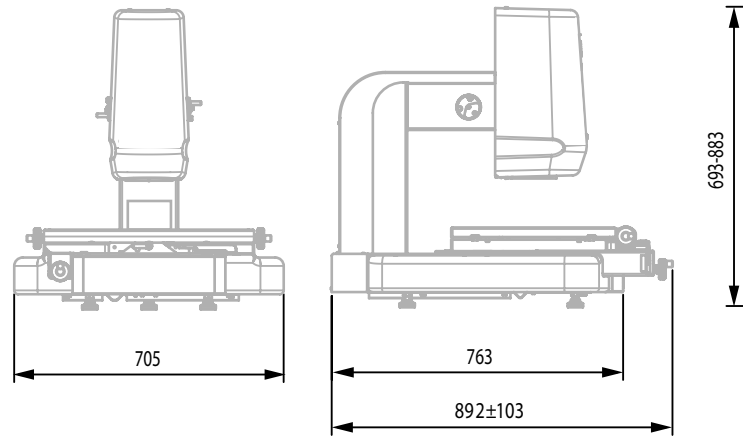
SYLVAC-VISIO

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)		$2.9 + 5L/1000$ (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

SYLVAC-VISIO

ACCESSORIES



902.6020

Visio demo part

VISIO 200

•

VISIO 300

•



902.7370

Diascopic illumination, parallel light

•

•

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

•

•

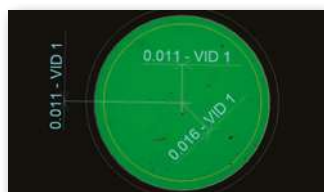


902.7380

Foot switch for value capture

•

•



902.7390

Sylvac - Reflex Vista COMPARE

Standard
delivery

Standard
delivery



928.6006

Plastiform case for SCAN and VISIO





•

•

Optical measurement

SYLVAC-VISIO

ACCESSORIES

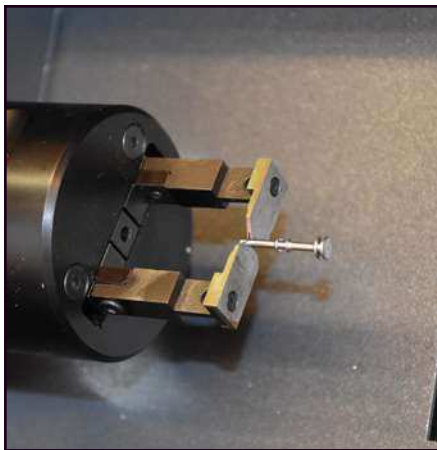
			VISIO 200	VISIO 300
	902.7300	<p>Basic fixtures Kit :</p> <ul style="list-style-type: none"> • 1x Quick-Load Corner Fixture (QLC) • 1x 13mm x 150mm x 150mm R&R Acrylic Multi-Hole Fixture Plate • 1x (3) Dowel Pins • 3x 6mm Dia. x 10 and x 25mm Standoff • 3x 9mm Dia. x 5, x 10, x 20 and x 25mm Standoff • 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	<p>Advanced fixtures Kit :</p> <p>All Basic fixtures (acrylic plate 13x200x200mm) kit added with :</p> <ul style="list-style-type: none"> • 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	<p>Fresnel kit 0.5x</p> <p>Fresnel lens + lens 0.5x + fixation screws (for Ringlight)</p>	•	
	902.7105	<p>Fresnel kit 0.75x</p> <p>Fresnel lens + lens 0.75x + fixation screws (for Ringlight)</p>	•	
	902.7106	<p>Fresnel kit 1.5x</p> <p>Fresnel lens + lens 1.5x + fixation screws (for Ringlight)</p>	•	

Optical measurement

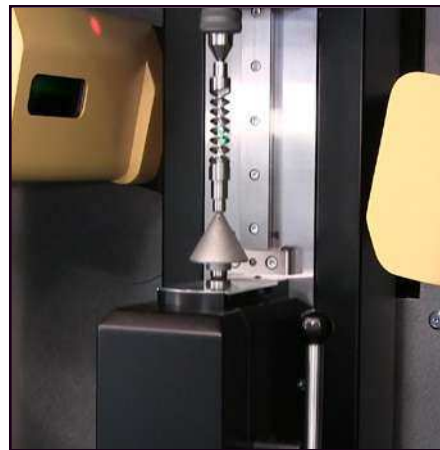
APPLICATIONS



Measurement of a turned part with SCAN 52



Small turning part held with 2-jaws gripper accessory on SCAN 52



Thread measurement with SCAN F60T



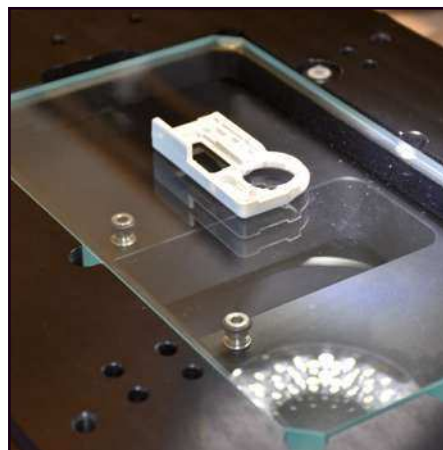
Part measurement with SCAN F60



Part measurement with SCAN F60L



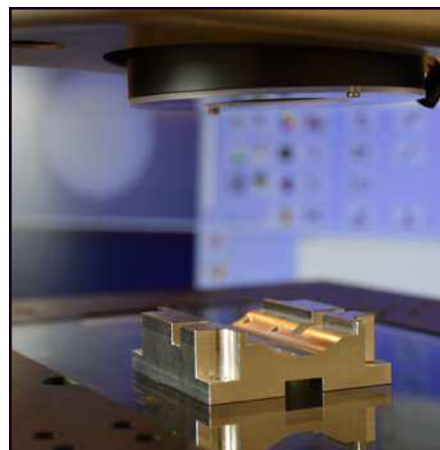
SCAN 52 and robot : closed loop with automatic correction of the part



Part lighted by ring light on VISIO



Part lighted by diascope light on VISIO



Part lighted by coaxial light on VISIO

PLASTIFORM®

PLASTIFORM® products are made up of two components that solidify upon contact (mixing ratio 1:1).

While curing, they imitate all details of the surface on which they are applied with a very high precision : dimensions, forms, texture, surface finish...

The products exist in different versions and consistencies :

Liquid products (SRL)

Cement product (SRC)

Dough products (SRD)

They allow to obtain flexible, semi-flexible, rigid, or semi-rigid impressions.



DESCRIPTION

LIQUID PRODUCTS

- **Liquid products designed for the control of internal simple and complex forms**, such as threads, threads root, grooves and radius, by creating an internal complete impression
- **Avoid destructive testings** and allow to control inaccessible or hard-to-reach internal features
- Easy to use : self-placing compounds that fill completely the internal form of the part
- The impression can be easily measured by an measurement instrument
- Possibility of slicing the impression with the Twin Blade Cutter for profile measurement (depends on model)
- Possibility of creating custom protections such as custom seals of protection caps and to control the visual surface finish of the part (depends on model)



Cans 1.7l



Cartridges 50ml and 400ml



Internal impression



Non-destructive control



Cans 10.2l

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	928.3004	928.3005
Type	SRL2 L	SRL5 L	SRL7 L	SRL8 L
Description	1 Cartridge 400ml + 10 Quadro Nozzles			
Color				
Final consistency	Flexible	Semi-Flexible	Semi-Rigid	Semi-Rigid
Cut with cutter ?	✗	✗	✗	✗
Removal constraint	20%	5%	0%	0%

Cans 1.7l	928.8001	928.8005	928.8007	928.8009
Type	SRL2 XL	SRL5 XL	SRL7 XL	SRL8 XL
Description	1 Can 1.7l (2x 850ml)			
Color				
Final consistency	Flexible	Semi-Flexible	Semi-Rigid	Semi-Rigid
Cut with cutter ?	✗	✗	✗	✗
Removal constraint	20%	5%	0%	0%

Cans 10.2l	928.8002	928.8006	928.8008	928.8010
Type	SRL2 XXL	SRL5 XXL	SRL7 XXL	SRL8 XXL
Description	1 Can 10.2l (2x 5.1l)			
Color				
Final consistency	Flexible	Semi-Flexible	Semi-Rigid	Semi-Rigid
Cut with cutter ?	✗	✗	✗	✗
Removal constraint	20%	5%	0%	0%

DESCRIPTION

CEMENT, DOUGH & RE-FORM PRODUCTS

- **Cement (SRC), Dough (SRD) and Re-form (SRF) products** for the control of external simple and complex forms such as T-slotes, grooves and notches (depends on model)
- Easy to use
- The impression can be easily measured by an measurement instrument
- Possibility of slicing the impression with the Twin Blade Cutter for profile measurement (depends on model)
- Control of roughness Ra (depends on model)
- Possibility of creating custom protection for masking, protection and seal of parts (depends on model)



External impression (SRD)



Control of roughness Ra (SRC)



Protection (SRF)



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	928.9001
Type	SRD6	SRD7	SRD9	SRD KV-AD
Description	Pack of boxes 900ml (2x450ml)			
Color				
Final consistency	Semi-Flexible	Semi-Flexible	Rigid	Semi-Flexible
Cut with cutter ?	✓	✓	✗	✓
Removal constraint	5%	5%	0%	5%

Bags	928.4001	928.4001
Type	SRF	SRF
Description	Bag of 500g	Bag of 1000g
Color		
Final consistency	Rigid	Rigid
Cut with cutter ?	✗	✗
Removal constraint	-	-

DESCRIPTION

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

KITS & ACCESSORIES



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

Large volume kits	928.5001	928.5002	928.5003	928.5004
Type	Kit SRL2 KXL	Kit SRL5 KXL	Kit SRL7 KXL	Kit SRL8 KXL
Description	Kit with 4 cartridges 400ml and accessories			
Color				
Final consistency	Flexible	Semi-Flexible	Semi-Rigid	Semi-Rigid
Cut with cutter ?	✗	✗	✗	✗
Removal constraint	20%	5%	0%	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	Cartouches 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	Cartouches 50ml		Cartouches 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	Cartouches 400ml	-	-	Injecteur mélangeurs standards gris		-

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	-	-

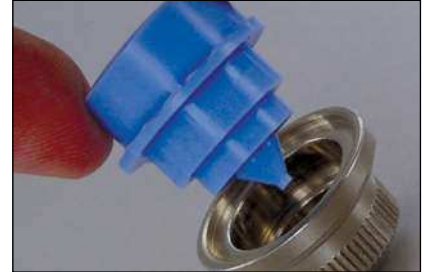
* Not included or delivered if shipped by air

Plastiform®

APPLICATIONS



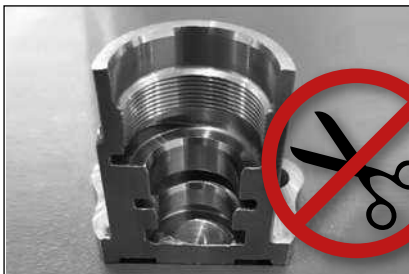
Internal dimensional control



Internal dimensional control



External dimensional control



Non-destructive control



Custom protective cap



Plastiform®

APPLICATIONS



Profile cutting



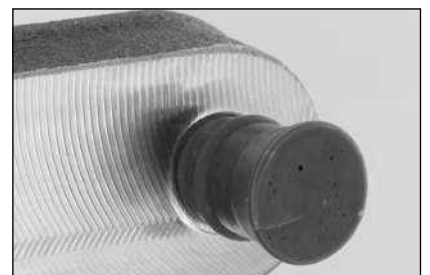
Roughness control Ra



Visual finishing control



Protection, masking, seal



Fix, clamp, add strength to parts





sylvac

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