sylvac

Smart metrology for optimized productivity

ULTIMATE DIGITAL PROBE

SMART

NEW !



High precision solution, now with integrated Bluetooth® technology !

Experience unparalleled precision with our patented absolute measuring system S_Probe P25D, designed for workshop environments, and offering Bluetooth® technology output for easy data acquisition.

IP54

SWISS MADE

µm

High resolution

0.01 micron

Built-in Bluetooth®

Integrated wireless output

Bluetooth® technology

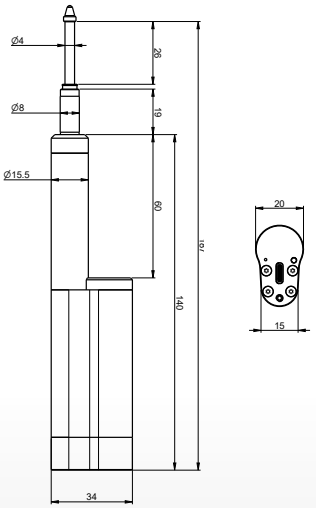
Long life

Ball bearing, stainless steel and IP54

Sylvac SA - Avenue des Sciences 19, 1400 Yverdon-les-Bains (CH)
Tel. +41 21 637 67 57 - Email. info@sylvac.ch - Web. www.sylvac.ch

- Outstanding resolution : 0.01 micron
- Measuring range 25.4mm
- High Accuracy and Repeatability : Patented inductive measuring system
- Built to last in workshops: extremely robust ball bearing guide, stainless steel body and IP54 protection
- Direct output data with Bluetooth® technology
- Powered by AA battery (up to 9 months of life battery) or USB-cable*
- Saves time with Lightning-Fast Readings: up to 100 values per second

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

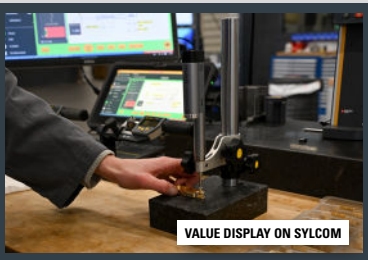


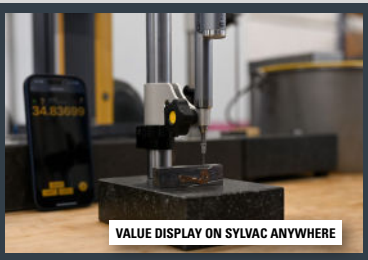
DATA

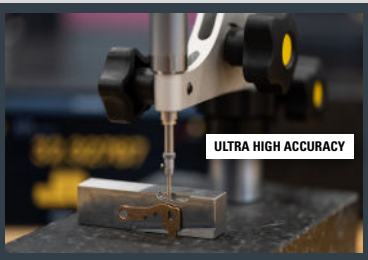
		801-1626	801-1638
Measuring range	mm	25.4	
Type		P25D Smart	P25D Smart CF
Force	N	0.7 - 1.3 [1]	0.15 [2]
Resolution	µm	0.01	
Max. error	µm	0.8	
Repeatability	µm	0.08	
Power supply		1.5V AA (LR06) battery (rechargeable 1.2V battery can be used) / 4.5 – 5.5V on USB-C port	
Output data		Bluetooth® Wireless Technology	
Protection		IP54	

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

EXAMPLES







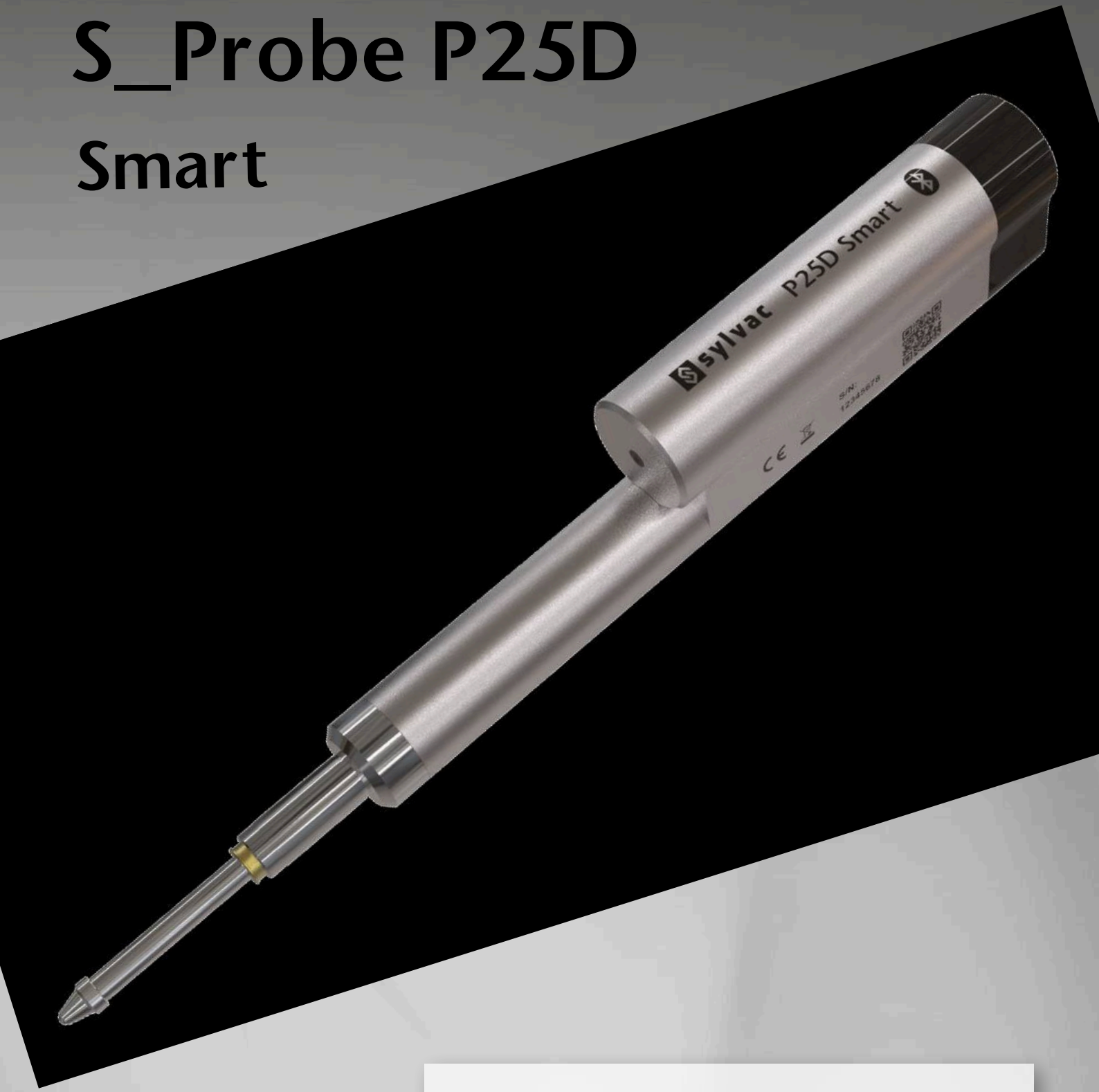
New P25D Smart probe : *high resolution, wireless technology !*

sylvac

SWISS MADE

S_Probe P25D

Smart



Instruction manual

Description

The P25D Smart probe is a long-range, high-precision inductive measurement probe with built-in Bluetooth® wireless technology. The rugged design and wireless connectivity allow the probe to be used in harsh conditions and hard-to-reach locations.

The low power architecture means long operating times and infrequent battery changes. In addition, the common battery size means that replacements can be found quickly.

Connection

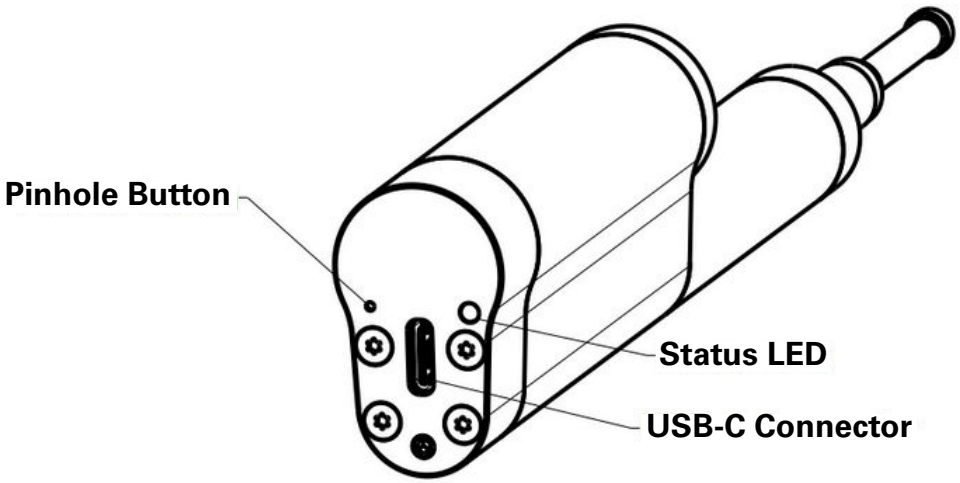
Bluetooth®

The P25D probe only transmits data via a Bluetooth® Low Energy wireless connection (Bluetooth® 4.0 or higher). The device starts advertising as soon as the battery is installed. Please use Sylcom, Vmux or Sylvac Anywhere (mobile application) to communicate with your probe through the Sylvac Metrology SIMPLE profile (PAIR profile available through Sylcom, HID profile not available).

USB-C

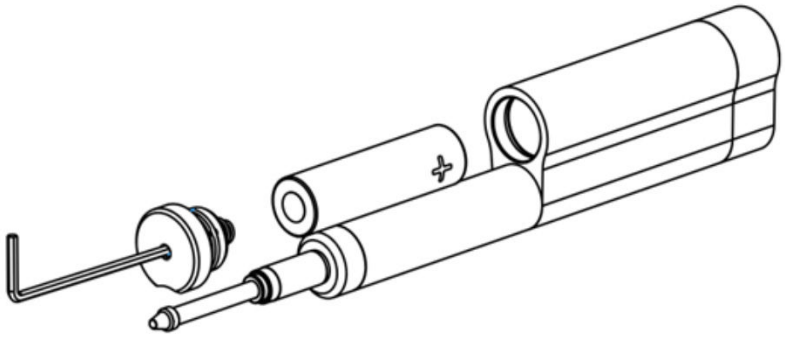
The USB-C connector can only be used to supply power to the probe (using the probe without battery, not to recharge the battery). No data can be transferred on the USB port.

Interface



Battery

Remove the battery compartment cover using a 2mm hexagonal key (Allen wrench), insert a 1.5V AA (LR06) battery and replace the cover. Make sure the battery is inserted correctly, observing the polarity as shown.



The use of 1.5V AA alkaline batteries is strongly recommended for best performance. Rechargeable AA batteries can be used, but the charge level indicator may not work properly. Calibration is based on 1.5V for a fully charged battery.

Reset button

The reset button is located on the top of the probe. Use a small tool such as a paper clip to press it.

Bluetooth® reset

A short press on the reset button (< 1s) will reset the Bluetooth® connection.

Instrument reset

A long press on the reset button (> 1s) will apply a factory reset of the instrument (Bluetooth® name and profile selection are preserved).

Status LED

A Light Emitting Diode (LED) is used to indicate the status of the probe. The following table gives an overview of the possible codes and their meanings.

LED status	Description
Blue LED on for 3s	A Bluetooth® connection has been established
Blue LED flashing at 1Hz	Device is advertising for a connection / reconnection
Blue LED flashing once in 7s	Device is advertising for a reconnection
Green LED on for 3s	Device is powered by USB
Green LED flashing once in 5s	Device is active and connected
Red LED flashing once in 5s	Low battery, replace battery
Red LED flashing at 1Hz	General error. Perform a reset

Main commands

The following table lists the main commands that can be used with a P25D Smart probe. Every command must be terminated by a carriage return character (0x0D).

Command	Description
?	Get current position
DIR +/-	Change measuring direction
DIR?	Get measuring direction
ECO1/0	Enables economical mode, else back to normal running mod
ID?	Get the device identifier
MAC?	Get Bluetooth® MAC address
MIN / MAX / DEL / NOR	Select MIN, MAX, DELta or NORmal mode RST
MM / IN	Set measuring unit to millimeters / inches
MOD?	Get active mode
PERF1/0	Enables performance mode, else back to normal running mode
RST	Re-initialize the probe
SBY xx	Set delay until standby (minutes), SBY 0 disables standby mode
SBY ?	Get delay until standby
SET	Set origin (zero) at the current position
SN?	Get serial number
UNI?	Get current measuring unit
VER?	Get firmware version

Specifications

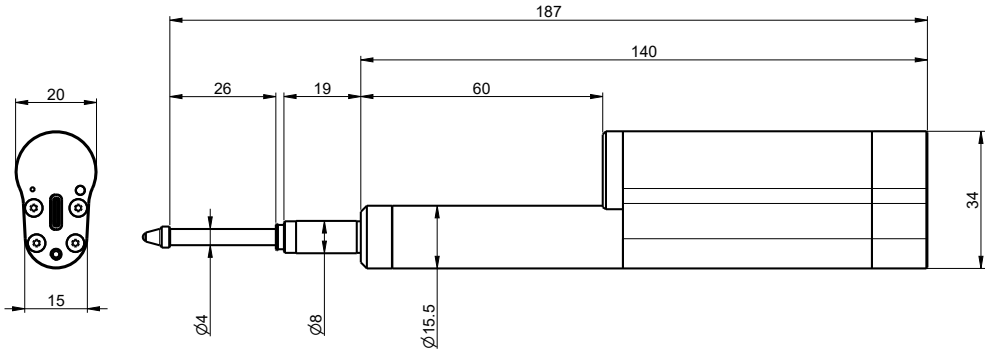
Specifications	801-1626	801-1636
Type	P25D Smart	P25D Smart CF
Force	0.7 - 1.3N	0.15N ±20% (only vertical use)
Measuring range	25.4mm	
Resolution	0.01µm	
Max error.	0.8µm	
Repeatability	0.08µm	
IP rating	IP54	
Operating temperature (storage)	+5 à +40°C (-10° à +60°C)	
Weight	141g (without battery)	140g (without battery)
Power supply	1.5V AA (LR06) battery (rechargeable 1.2V battery can be used) 4.5 – 5.5V on USB-C port	
Battery life	Up to 5000h (primary 1.5V battery, 2700mAh) [1]	
Clamping shaft	Ø8h6 (3/8'')	

Connection	Bluetooth®
Data rate	Standard mode 8d/s (default) - ECO mode 6d/s - PERF* mode 50d/s [2]

[1] 8/24h, 5/7d connected, otherwise standby advertising (Disconnected, master side switched OFF)
[2] For demanding applications, requires custom software not available from Sylvac

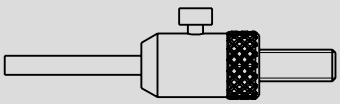
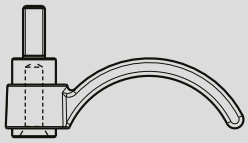
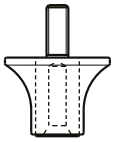
Dimensions

Mechanical drawing (all dimensions in millimeters) :



Accessories

The following accessories are available for P25D Smart probes. Refer to the manufacturer's website for a complete list of compatible accessories.

Accessory	Order number	Description
	905-2201	Flat contact point M2.5
	905-2203	Rounded contact point M2.5
	905-2204	Ballpoint contact point M2.5
	905-2224	Plastic lifting lever
	905-2225	Plastic lifting ring

See general catalogue (available on www.sylvac.ch) for dimensions and more accessories.

Maintenance

Carefully dry all mechanical parts of the instrument after contact with liquids to ensure correct operation and avoid corrosion. Do not use aggressive products (alcohol, trichloroethylene, etc.) to clean plastic parts. Do not expose the instrument to direct sunlight, heat or moisture.

Calibration

CALIBRATION CERTIFICATE

Because our instruments are manufactured in batches, you may find that your calibration certificate appears to be out of date. Please be assured that your instruments are certified at the point of manufacture and then stored in our warehouse in accordance with our ISO 9001 Quality Management System. The recalibration cycle should start from the date of receipt.

Conformity

CERTIFICATE OF CONFORMITY

We certify that this instrument has been manufactured in accordance with our quality standard and tested with reference to masters of certified traceability by the Federal Institute of Metrology.

Bluetooth® radio

U.S./Canada certification

FCC ID: 2AAQS-ISP1807
IC: 11306A-ISP1807

NOTICE:
Changes or modifications made to this equipment not expressly approved by Sylvac may void the FCC authorization to operate this equipment.

Sylvac
m.n : S_Probe P25D Smart

NOTICE:

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions.

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Brazil certification

Description:
The module ISP1807 is based on Nordic Semiconductor nRF52840 Bluetooth LE system on chip. The nRF52840 is a Bluetooth 5.x SoC that integrates a 64 MHz Arm Cortex-M4 CPU with ultra-low power consumption and Flash/RAM memory.

ANATEL

MODELO : ISP1807
04057-23-14043

Este equipamento opera em caráter secondário, isto é, não tem direito à proteção contra interferência prejudicial, mesmo de estações do mesmo tipo e não pode causar interferência a sistemas operando em caráter primário.

Korea South certification

R-C-iNs-ISP1807

Class A Equipment (Industrial Use)

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Japan certification

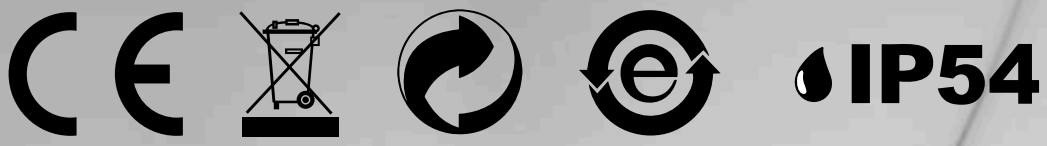
R 020-200037

Taiwan certification

CCAJ23Y10060T5

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Änderungen vorbehalten

www.sylvac.ch

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