sylvac

Experts in connected metrology !

NEW !

ULTIMATE DIGITAL PROBE

D



High precision solution !

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

IP51

SWISS MADE

High accuracy

0.01 micron

Direct digital output

USB, M8 or OPEN

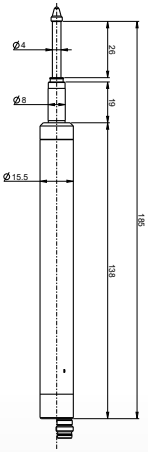
Robust

Stainless steel and IP51

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SYL2304-F-P25D-E

- Outstanding resolution : 0.01 micron
- High Accuracy and Repeatability : Patented absolute measuring system
- Built to last in workshops: extremely robust ball bearing guide, stainless steel body and IP51 protection
- Saves cost with direct digital output : connect directly to a computer via USB or M8 for seamless integration with data acquisition softwares such as Sylcom . Also available with OPEN connector.
- Saves time with Lightning-Fast Readings: up to 100 values per second




M8 CONNECTOR


USB CONNECTOR


OPEN CONNECTOR

DATA

	801-1225	801-1228	801-1229	801-1235	801-1238
Measuring range mm	25.4				
Type	P25D M8	P25D USB	P25D OPEN	P25D M8 CF	P25D USB CF
Force N	0.7 - 1.3			0.15	
Resolution µm	0.01				
Max. error µm	1.2				
Repeatability µm	0.1				
Options	Rubber boot				
Connector	M8	USB	OPEN	M8	USB
Protection	IP51				

CF : constant force : usable only vertically, rod pointing downwards (without spring)

EXAMPLES


M8 INPUT ON D62S



DIRECT DIGITAL USB OUTPUT


PERFECT FOR WORKSHOP

New P25D probe : *high resolution, larger measuring range !*

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SWISS MADE

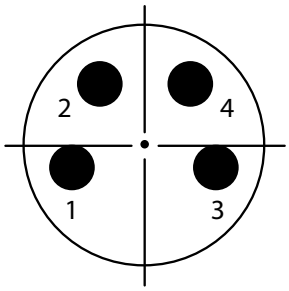
S_Probe P25D

USB, M8, OPEN



Instruction manual

Connection



M8 male connector
(front view)

Pin	X	Y	Signal	Description	Color
1	-1.70	-0.50	Power	5V power supply	Brown
2	-1.08	1.45	A	RS485 A	White
3	1.70	-0.50	Ground	0V ground	Yellow
4	1.08	1.45	B	RS485 B	Green

Use the following connection parameters :

ASCII : 128'000Bd,8 data bits, even parity, one stop bit (128kBd, 8E1)
MBus : 187'500Bd, 8 data bits, odd parity, one stop bit (187'500Bd 8O1)
MODBUS: 128'000Bd,8 data bits, even parity, one stop bit (128kBd, 8E1)

The probe starts in ASCII mode at 128 kBd, 8E1. If a MODBUS command is detected, the baudrate and the protocol are fixed. If the P25D recognizes an MBus command, it switches to 187'500Bd,8O1 and stays at this baudrate and protocol as long as the power supply is not interrupted.

Compatibility

P25D probes are compatible with the following Sylvac softwares and display units :

- D300S version 2.35 and higher or 2.5 and higher for high resolution (USB)
- D400S (with MB-4P)
- D62S (M8)
- Sylcom version 1.3.1 and higher (USB)
- Vmux version 1.35 and higher (USB)
- PLC I/O (OPEN)







Main MBus commands

Command	Code	Description
OrbitGetInfo	B	Get device information
OrbitIdentify	I	Get device ID
OrbitNotify	N	Return factory ID if moving
OrbitSetAddr	S	Set temporary short address
OrbitRead2	L	Get current position

Main MODBUS commands

Word variables	Address (decimal)	Access type
Instrument position	0002	RO
Instrument slave number	8705	R/W
Instrument factory number	9600	RO

Bit variables	Address (decimal)	Access type
Configuration procedure start	9536	R/W
Measurement in inch	0065	R/W

Main ASCII commands

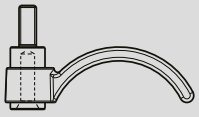
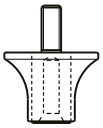
Command	Description
?	Get the current position
SET	Set zero at current position
UNI?	Get the measurement unit
MM/IN	Change the measurement unit
ID?	Get the device identifier
VER?	Get the firmware version

All commands must be terminated by a carriage return character (CR, 0x0D)

Specifications

Specifications	801-1225	801-1228	801-1229	801-1235	801-1238
Type	P25D M8	P25D USB	P25D OPEN	P25D USB Constant force	P25D M8 Constant force
Force	0.6 - 1.1N			0.15N ±20%	
Measuring range	25.4mm				
Resolution	0.01µm				
Max error.	1.2µm				
Repeatability	0.1µm				
Connector	M8	USB	OPEN	M8	USB
Cable length	2m				
IP rating	IP54				
Operating temperature (storage)	+5 à +40°C (-10° à +60°C)				
Weight	122g (without cable)				
Power supply	5 à 24V				
Average consumption	2.6mA (@5V)				
Measurement system	Sylvac Inductive System				
No. of measurements/sec	1500 / up to 300 (internal / nb. transmittable)				
Data bus	RS485 compatible, 1/256 unit load				

Accessories

Order number	Drawing	Description
905-2204		Stainless steel 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

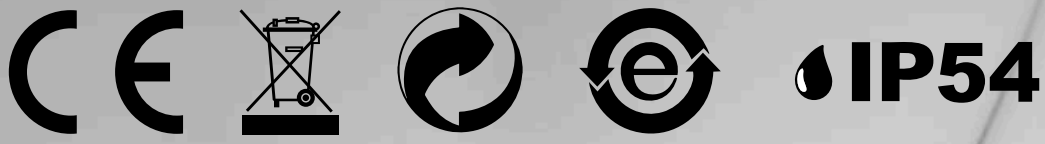
CALIBRATION CERTIFICATE

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.



Changes without prior notice
Sous réserve de toute modification
Änderungen vorbehalten

www.sylvac.ch

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