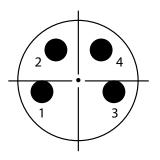








Connection



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

M8 male connector (front view)

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	В	Get device information
OrbitIdentify		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	
Туре	P25D M8	P25D USB	P25D OPEN	P25D USB Constant force	P25D M8 Constant force	
Force	0.6 - 1.1N			0.15N <u>+</u> 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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