sylvac

SWISS MADE

S_Probe P12D
M8

IP54

Changes without prior notice
Sous réserve de toute modification
Änderungen vorbehalten

www.sylvac.ch

Quickstart guide

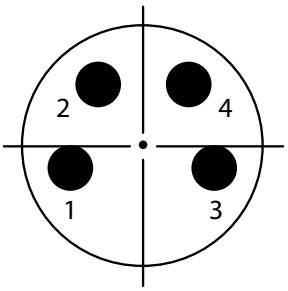
Edition : 2018.09 / 681.288.02

Specifications

Specifications	801.1212	801.1218	801.2212	801.0212
Type	P12D HR M8	P12D HR M8 Constant force	P12D M8	P12D WORK M8
Resolution type	High	High	Standard	Standard
Force	0.2-0.3N [1]	0.08N [2]	0.4-0.8N [3]	0.4-0.8N [3]
Measuring range	12.7mm			
Resolution	0.01µm		0.1µm	
Max. error	0.6µm		1µm	1.8µm
Repeatability	0.08µm		0.2µm	0.2µm
Nb measures/s	max 100			
Connector type	M8			
Cable output	Straight			

[1] ± 20%, vertical position, not usable with probe to the top
[2] ± 20%, only usable in vertical position, probe to the bottom
[3] ± 20%, vertical position

Connection



M8 male connector (front view)

	X	Y
1	-1.70	-0.50
2	-1.08	1.45
3	1.70	-0.50
4	1.08	1.45

Pin	Signal	Description
1	Power	5V
2	A	RS485 A
3	Ground	OV
4	B	RS485 B

Use the following connection parameters :

ASCII : 115'200Bd, 8 data bits, no parity, one stop bit (115'200Bd 8N1)
MBus : 187'500Bd, 8 data bits, odd parity, one stop bit (187'500Bd 8O1)

The probe starts in ASCII mode at 115'200Bd,8N1
As soon as it recognizes a bus command, it switches to 187'500Bd,8O1
It stays at this baudrate as long as the power supply is not interrupted.

Sylvac P12D M8 probes are designed to be used with Sylvac D62S display unit.

Calibration

CALIBRATION CERTIFICATE

Because our instruments are produced in batches, you may find that your calibration certificate seems to be out of date. Please be assured that your instruments are certified at point of production and then held in stock in our warehouse in accordance with our Quality Management System ISO 9001. Re-calibration cycle should start from 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.

Main bus commands

OrbitGetInfo	Get device information
OrbitIdentify	Get device ID
OrbitNotify	Return factory ID if moving
OrbitSetaddr	Set temporary short address
OrbitRead2	Get current position

Main ASCII commands

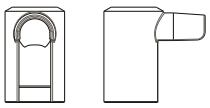
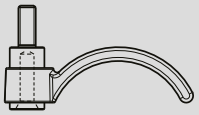
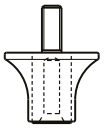
?	Get the probe's position
ID?	Get the instrument's identifier
MM/INCH	Change the measurement unit
SET	Set zero at current position
SUM?	Get the filtering parameter
SUM 1 / 16 / 256	Set the filtering parameter
UNI?	Get the measurement unit
VER?	Get the firmware version

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

Maintenance

Carefully dry all mecanical parts of the instrument after contact with liquids to ensure proper operation and avoid corrosion. Don't use aggressive products (alcohol, trichloroethylene or others) to clean plastic parts. Do not expose the instrument to direct sunlight, heat or humidity.

Accessories

Order number	Drawing	Description
801.5101[1)]		Bender 90° for P12D cable
905.2204		Stainless steel contact point M2.5
901.2005		Lifting device with photo cable
905.2224		Plastic lifting lever
905.2225		Plastic lifting ring

See general catalogue (available on www.sylvac.ch) for dimensions and more accessories.
[1)] Available in Q1/2019