

MPS500

Industrial Pressure Transmitter



OVERVIEW

Operation

MPS500 series pressure transmitters are suitable for liquids, gas pressure measuring and controlling in the moderate media, with sensor probe working very well with long term stability at the high temperature of 125 °C

Features

- Compact design
- Protection type IP65 or IP67 as optional
- Corrosion resistant stainless steel design
- Wide measuring range
- Simple installation
- Various output signal

Application

- Creating consumption profiles to save energy
- Pressure and temperature-compensated flow measurement of compressed air.
- Accurate determination of compressed air flow rates over a broad measuring range.



OPERATING DATA

Temperature Limit

-40...125°C

Compensated Temperature Limit

-20...100°C

Stability

0.15% of FS/year

Accuracy

±0.5% FS for MPS500

±0.2% FS for MPS501

±0.1 % FS for MPS502

Over Pressure

Full scale range up to 16 bar-2.5x

Above 16 to 600bar - 2x

Above 600 bar - 1.5x

Zero Balance

±5 % Full scale

MEASURING RANGES

Maximum Pressure Range

0-2500 bar

MATERIALS

Wetted Parts

AISI316L

Body Tube

AISI304

Others

On request

CONNECTION

Standart

1/4", 1/2", 3/4", 1" NPT or G

Others

On request

ELECTRICAL DATA

Output

2 wires, 4-20 mA

Option

0-5 VDC, 1-5 VDC or 0-10 VDC

Supply should be 14 VDC minimum

Power Supply

10-36 VDC power

Electrical Connection

DIN 43650A or cable connection

Others

On request

Enclosure

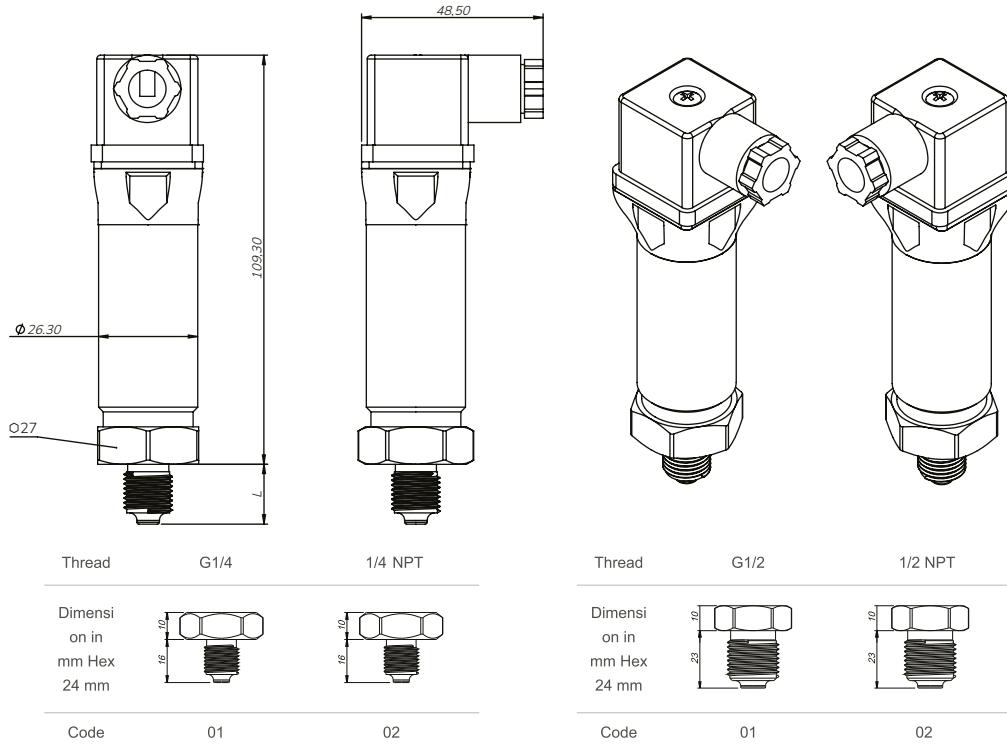
IP65, IP67 and IP68 on request

Communication

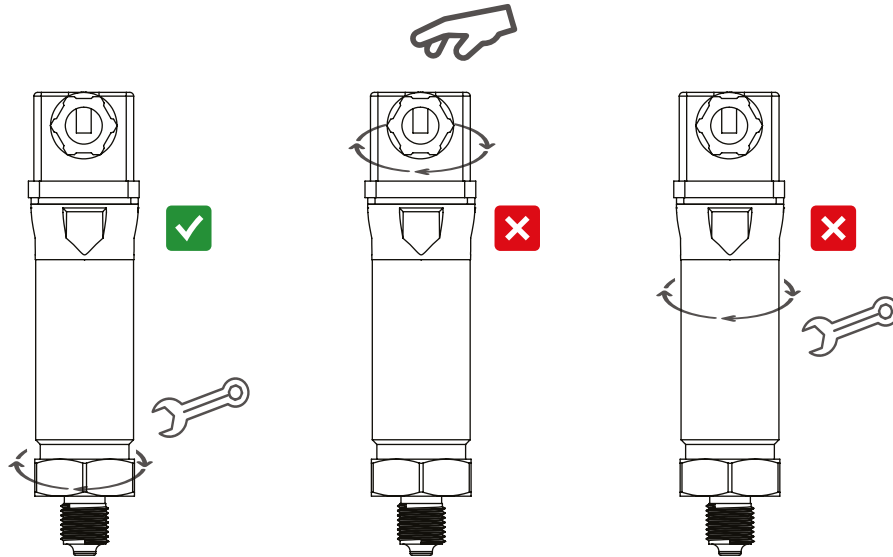
HART (Optional), RS-485 MODBUS



TECHNICAL DRAWING AND DIMENSIONS



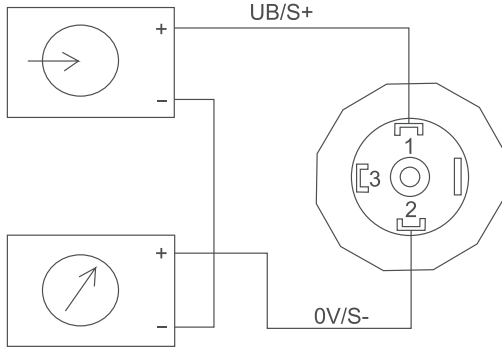
PRODUCT ASSEMBLY



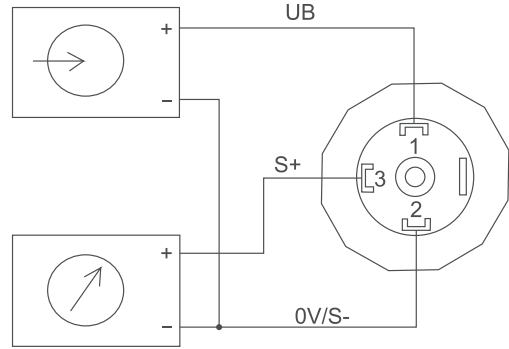
Care must be taken when assembling the product. Instead of working by hand, use an open-end wrench as indicated on the figure and apply force straight through the hexagonal wrench blade. Make sure that sufficient torque is applied. Do not perform the switching operation from the transmitter body or the socket part. The manufacturer is not responsible for the problems that may arise from the assembly process made outside the instructions.



WIRING



4-20 mA, 2 wires



0-10 VDC

MEASURING RANGES

Code	Range	Code	Range	Code	Range
001	0...25 mBar	010	0...1.6 Bar	019	0...100 Bar
002	0...40 mBar	011	0...2.5 Bar	020	0...160 Bar
003	0...60 mBar	012	0...4 Bar	021	0...250 Bar
004	0...100 mBar	013	0...6 Bar	022	0...400 Bar
005	0...160 mBar	014	0...10 Bar	023	0...600 Bar
006	0...250 mBar	015	0...16 Bar	024	0...1000 Bar
007	0...400 mBar	016	0...25 Bar	025	0...1600 Bar
008	0...600 mBar	017	0...40 Bar	026	0...2500 Bar
009	0...1 Bar	018	0...60 Bar	XXX	Special Ranges



ORDERING

Model	
MPS500	Industrial Pressure Transmitter

Output	
420	4-20 mA (others specify as X)
050	0-5 VDC
010	0-10 VDC
485	RS485 MODBUS

Measuring Range	
XXX	Please Look at Measuring Range Table

Pressure Type	
01	Relative
02	Absolute

Process Connection	
01	G 1/2" (please specify other size as X)
02	1/2" NPT-M
03	G 1/4"
04	1/4" NPT-M

Electrical Connection	
PIN	Pin Connector M12
DIN	DIN 43650A
010	Cable length 10m.

Hazardous Area	
N	None
Xi	II 1/2G Ex ia IIC T4 Gb(Ga)

