

MPS700

Flush Diaphragm Pressure Transmitter



OVERVIEW

Operation

MPS700 series pressure transmitters are suitable for liquids, dirty fluids pressure measuring and controlling in the moderate and high viscous media with sensor probe working very well with long term stability at the high temperature of 125°C or 300°C as optional.

Application

- Liquids pressure measuring and controlling
- Chemical industry

Features

- Compact design
- Protection type IP65 or IP67 and IP68 as optional
- Corrosion resistant stainless steel design
- Wide measuring range
- Simple installation
- Various output signal
- High viscosity resistance
- Flush diaphragm



OPERATING DATA

Temperature Limit

-40...+125°C
-40...+300°C with cooling element
MPS70H

Compensated Temperature Limit

0...+80°C

Stability

0.15% of FS/year

Accuracy

±0.2%, ±0.1% FS on request

Over Pressure

Full scale range up to 16 bar-2.5x
Above 16 to 400 bar - 2x

Repeatability

±0.05 % of full scale

MEASURING RANGES

Maximum Pressure Range

0-400 bar

MATERIALS

Wetted Parts

AISI316L

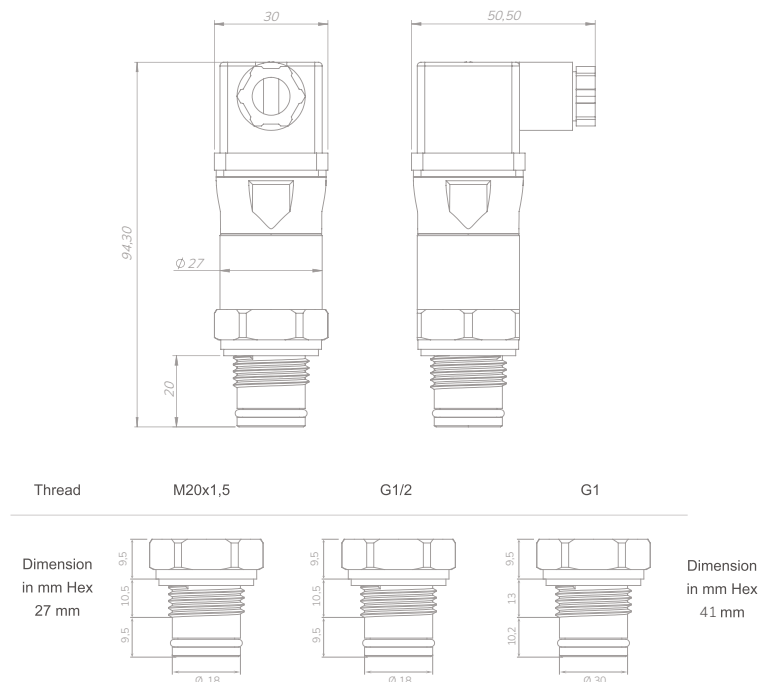
Body Tube

AISI304

Others

On request

TECHNICAL DRAWINGS AND DIMENSIONS



CONNECTION

Standart

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

ELECTRICAL DATA

Output

2 wires, 4-20 mA

Power Supply

10-36 VDC power

Option

0-5 VDC or 0-10 VDC

Supply should be 14 VDC minimum

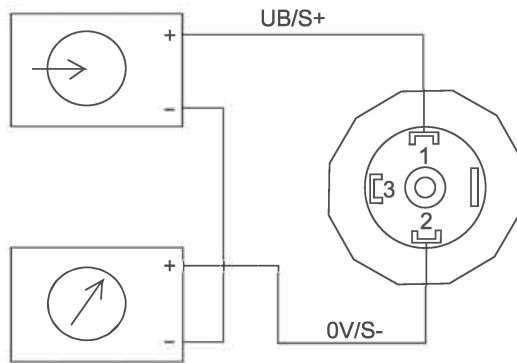
Electrical Connection

DIN 43650A or cable connection

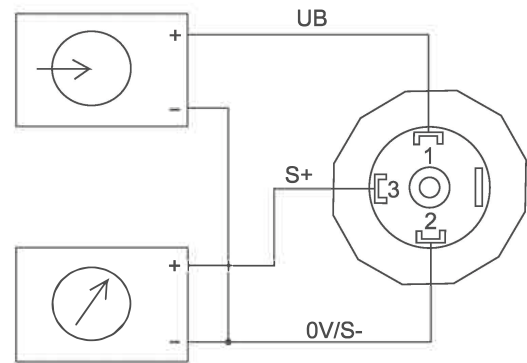
Enclosure

IP65, IP67 on request

WIRING



4-20 mA, 2 wires



0-10 VDC



MEASURING RANGES

Code	Range	Code	Range	Code	Range
001	0...25 mBar	009	0...1 Bar	017	0...40 Bar
002	0...40 mBar	010	0...1,6 Bar	018	0...60 Bar
003	0...60 mBar	011	0...2,5 Bar	019	0...100 Bar
004	0...100 mBar	012	0...4 Bar	020	0...160 Bar
005	0...160 mBar	013	0...6 Bar	021	0...250 Bar
006	0...250 mBar	014	0...10 Bar	022	0...400 Bar
007	0...400 mBar	015	0...16 Bar		
008	0...600 mBar	016	0...25 Bar	XXX	Special Ranges

ORDERING

Model	
MPS700	Flush Diaphragm Pressure Transmitter

Output	
420	4-20 mA
010	0-10 VDC
421	4-20 mA+ HART

Measuring Range	
XXX	Please see "Measuring ranges table"

Measuring Type	
01	Relative
02	Absolute

Process Connection	
01	G 1/2"
02	1/2" NPT-M
03	G 3/4"
04	3/4" NPT-M
05	G 1"
06	1" NPT-M

Electrical Connection	
DIN	DIN 43650A
010	Cable length 10m

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

