

SMART SERIES PRESSURE TRANSMITTER

ISP-SMART

The sensors ISP-SMART are piezoresistive pressure sensors. These Pressure Sensors possess a flush diaphragm facing the pressure media, Able to measure the pressures of viscous liquids. The diaphragm forms a chamber in which oil is filled to isolate sensing element from transfer pressure. The isolation helps measure the pressures of corrosive fluids and electro-conductive fluids.



Specifications:

- Range: 0-1 Bar to 0-400 Bar
- Material:
 1. Sealing Ring: Viton
 2. Diaphragm: SS316L/ Tantalum(Optional)
 3. Case: SS316
- Signal: 4-20mA with superimposed communication signal for HART Protocol
- Accuracy:

10:1	< 0.05%
20:1	< 0.075%
40:1	< 0.1%
100:1	<0.25%
- Long Term Stability: 0.05%/Year
- Display: 5 Digit 52 Bars Meter
- Display range: -19999-99999

The HART module can be adjusted via three pushbuttons on display module, PC with HARTTran software or PDA, Display and push buttons. The indication of the measured value as well as the configuration of the individual parameters occurs through a menu via the LCD. The individual functions can be set with the help of three push buttons. Besides in the display a bar graph is shown, which indicates the current pressure input in per cent to the specified pressure range. Following parameters can be adjusted:

Unlock PV=0

4 mA rerange

20 mA rerange

Configuration scaling

Damping

Display mode

Fixed output

Restore

HARTTalker and software. All parameters can be adjusted, monitored with HARTTalker and HartTran (software) via PC, notebook or PDA

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Specifications:

Pressure Media		Viscous Fluids/Fluids with grains compatible to wetted parts
Pressure Range	BAR	0-0.35 to 0- 400Bar
Pressure Type		Absolute/Gage Pressure
Full Scale Output	mA/VDC	4-20mA/0-5VDC
Overload Pressure	%FSO	200
Combined Error	%FSO	0.075/0.1
Media Temperature Range	°C	-30 ~ +100
Long Term Stability	%FSO/yr	<0.1/year
Excitation Power Supply	VDC	12-36

Applications:

Process control systems
Level systems
Hydraulic systems and valves
Biomedical instruments
Aviation and spaceflight, petroleum and chemical

Environmental Conditions:

Position Effect: <0.1% of Zero shift for 90°
tilt in any direction
Vibration Effect: No change at 10gs' RMS, 20 ~ 2000Hz
Shock: 100g, for 10 millisecond
Life: 100 million cycles