IPSLAT series

Low Range, Intrinsically Safe Pressure Sensor



- Piezo-resistive sensor
- Stainless steel body & diaphragm
- Accuracy <±0.25% FS BFSL</p>
- Pressure ranges from 50 mbar to 1000 mbar
- Gauge or Absolute pressure reference

The IPSLAT is suitable for use in a wide range of applications in hazardous areas. The probe uses a piezo-resistive silicon sensor, giving excellent media compatibility within an oil filled 316L stainless steel housing

The electronics incorporate a microprocessor based amplifier, requiring no adjusting and giving stable electronics, especially in high vibration/shock applications.

Each device is temperature compensated, calibrated and supplied with a traceable serial number and calibration data.



Performance

Accuracy (Non-Linearity & Hysteresis) $<\pm0.25\%$ / FS (BFSL) for gauge, $<\pm0.5\%$ for Absolute Setting Errors (offsets)

2-wire

Zero & Full Scale, $<\pm0.5\%$ / FS

Options available on the IPSLAT pressure transmitter.

Pressure range

Pressure reference (G or Abs)

Material Specifications

Housing 316 Stainless Steel

"0" ring seals Viton

Diaphragm 316L Stainless Steel

Media wetted parts Housing & connection, "0" ring seal,

diaphragm

Miscellaneous

Weight Approx 100g

Installation position Any, small zero shift when tilted through

90

Operational Life > 100x 10⁶ cycles Insulation resistance > 50MOhms at 50Vdc

Electrical Protection

Supply reverse polarity No damage/no function Electromagnetic compatibility CE Compliant

Mechanical Stability

 Shock
 100g / 11s

 Vibration
 10g RMS (20 - 2000Hz)

Environment & Thermal Effects

Ambient Temperature Range -20°C to $+75^{\circ}\text{C}$ Storage temperature -40°C to $+80^{\circ}\text{C}$ Compensated temperature range $+20^{\circ}\text{C}$ to $+80^{\circ}\text{C}$ Thermal Zero Shift (TZS) $+20^{\circ}\text{C}$ $+20^{\circ}\text{C}$ to $+80^{\circ}\text{C}$ Thermal Span Shift $+20^{\circ}\text{C}$ $+20^{\circ}\text$

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ISO9001certified



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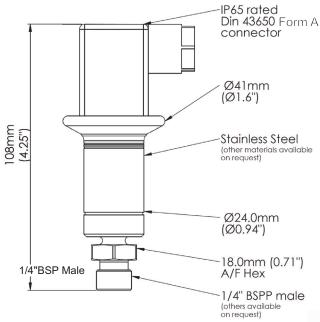
Pressure Ranges							
Nominal Pressure, Gauge, mbar	50	100	250	500	750	1000	
Nominal Pressure, Absolute mbar				500	750	1000	
Permissible Overpressure mbar	2 bar	2 bar	2 bar	5 bar	5 bar	5 bar	

Output Signa	al and Supply Voltage	DIN 43650			
Wire system	Output	Supply Volts	Connection	Pin No.	
2-wire	4-20mA	10-28Vdc	+ve Supply	Pin 1	
			-ve Supply	Pin 2	
			Ground	Farth pin	

Part No	Pressure Range		
IPSLAT-G0050-5	0 - 50mbar G		
IPSLAT-G0100-5	0 - 100mbar G		
IPSLAT-G0250-5	0 - 250mbar G		
IPSLAT-G0500-5	0 - 500mbar G		
IPSLAT-G0750-5	0 - 750mbar G		
IPSLAT-G1000-5	0 - 1000mbar G		
IPSLAT-A0500-5	0 - 500mbar Abs		
IPSLAT-A0750-5	0 - 750mbar Abs		
IPSLAT-A1000-5	0 - 1000mbar Abs		

Custom versions can be made for particular applications

Mechanical Dimensions









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