IPSLAT series



Low Range, Intrinsically Safe Pressure Sensor



Approvals:-ATEX / IECEx 🖾 II 1G Ex ia IIC T4 Ga (Ta -see schedule)



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

The IPSI AT 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

316 Stainless Steel

316L Stainless Steel

Housing & connection, "O" ring seal,

Any, small zero shift when tilted through

Viton

90°

diaphragm

Approx 100g

 $> 100 \times 10^{6}$ cycles

> 50MOhms at 50Vdc

IS09001certified

Accuracy (Non-Linearity & Hysteresis) < ±0.25% / FS (BFSL) for gauge, <±0.5% for Absolute Setting Errors (offsets) 2-wire Zero & Full Scale, <±0.5% / FS

Electrical Protection

Supply reverse polarity

Mechanical Stability

Storage temperature

Thermal Span Shift

Thermal Zero Shift (TZS)

Permissible environment

Shock

Vibration

Electromagnetic compatibility

Environment & Thermal Effects

Compensated temperature range +20°C to +80°C

Ambient Temperature Range

Options available on the IPSLAT pressure transmitter.

Pressure range Pressure reference (G or Abs)

Material Specifications Housing "0" ring seals Diaphragm

Media wetted parts

Miscellaneous Weight Installation position

Operational Life Insulation resistance

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Made in the UK

www.cynergy3.com

No damage/no function

10g RMS (20 - 2000Hz)

CE Compliant

100g / 11s

-20°C to +75°C

-40°C to +80°C

<±0.04% /FS/°C

<-0.015% /°C

Zone 0

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

Output Sign	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	Earth 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

