IPSLUAT series

Low Range, Intrinsically Safe Pressure Sensor



- Piezo-resistive sensor
- Stainless steel body & diaphragm
- Accuracy <±0.25% FS BFSL
- Pressure ranges from 1psi to 15psi
- Gauge or Absolute pressure reference

The IPSLUAT 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 certificate.

There is a choice of internal O ring seals to ensure that the device is compatible with a wide range of media.



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 IPSLUAT 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

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IPSLUAT 2016

Email:sales@cynergy3.com ISO9001certified



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

with patm 0.8 to 1.1 bar

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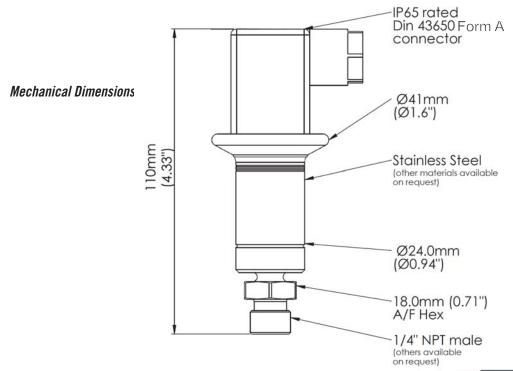
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Pressure Ranges							
Nominal Pressure, Gauge, psi	0.75	1.5	3.75	7.5	11.25	15	
Nominal Pressure, Absolute psi				7.5	11.25	15	
Permissible Overpressure psi	30	30	30	75	75	75	

Output Signa	al and Supply Voltage	e	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 Number	Pressure Rating
IPSLUAT-GP001-5	0 - 1psi G
IPSLUAT-GP002-5	0 - 2psi G
IPSLUAT-GP005-5	0 - 5psi G
IPSLUAT-GP008-5	0 - 8psi G
IPSLUAT-GP010-5	0 - 10psi G
IPSLUAT-GP015-5	0 - 15psi G
IPSLUAT-AP005-5	0 - 5psi Abs
IPSLUAT-AP010-5	0 - 10psi Abs
IPSLUAT-AP015-5	0 - 15psi Abs









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