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 IPSI UAT 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)<±0.25% / FS (BFSL) for gauge, <±0.5% for Absolute Setting Errors (offsets) 2-wire Zero & Full Scale, <±0.5% / 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, "O" ring seal,

diaphragm

Miscellaneous

Weight Approx 100g

Any, small zero shift when tilted through Installation position

Operational Life $> 100 \times 10^6$ cycles Insulation resistance > 50M0hms at 50Vdc

Electrical Protection

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

Mechanical Stability

Shock 100g / 11s 10g RMS (20 - 2000Hz) Vibration

Environment & Thermal Effects

-20°C to +75°C Media Temperature Storage temperature -40°C to +80°C Compensated temperature range +20°C to +80°C Thermal Zero Shift (TZS) <±0.04% /FS/°C Thermal Span Shift <-0.015% /°C Permissible environment Zone 0

Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE Telephone +44 (0) 1202 897969

Email:sales@cynergy3.com IPSLUAT 2017

ISO9001certified



www.cynergy3.com



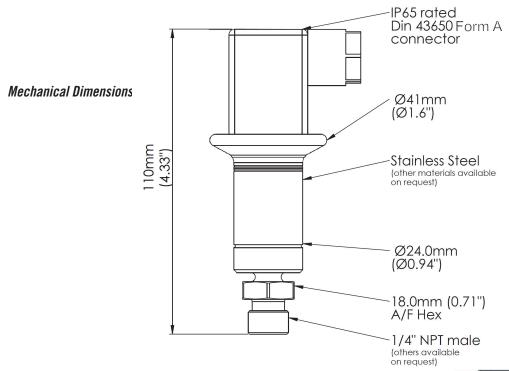
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Pressure Ranges							
Nominal Pressure, Gauge, psi	0.75	1.5	3.75	7.5	11.25	15	
Nominal Pressure, Absolute psi				7.5	11.25	15	
Permissible Overpressure psi	30	30	30	75	75	75	

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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