### **IPSLU-M12** series



### Low Range Industrial Pressure Sensor with M12 4-Pin connector



The IPSLU-M12 is suitable for use in a wide range of applications. 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.

Custom versions can be made for particular applications.

Material Specifications					
Housing	316L Stainless Steel				
"0" ring seals	Viton				
Diaphragm	316L Stainless Steel				
Media wetted parts	Housing & connection, "O" ring seal, diaphragm				
Miscellaneous					
Current consumption	2 -wire Limits at 28mA 3-wire Typical 6mA				

Weight Installation position

**Operational Life** Insulation resistance Environmental protection

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IPSLU-M12 2018

Piezo-resistive sensor

- Stainless steel body & diaphragm
- Accuracy <±0.25% FS BFSL
- Various outputs including Volts and mA.
- Pressure ranges from 1 psi to 15 psi
- Gauge or Absolute pressure reference
- 1/4"NPT process connection

#### Options available on the IPSLU-M12 pressure transmitter.

Pressure range Output type Mating cable and plug assemblies are available - see datasheet M12 Cable Set Series

#### Suitable applications

HVAC Pneumatics Rainwater harvesting Agricultural machinery Laboratory testing

Mechanical engineering Environmental engineering Automotive testing Tank gauging IBC, IBC Tote or pallet tank

 $R_{min} = 10 k\Omega$ 

<0.005% FS / 1V 0.05% FS0 / k $\Omega$ 

#### Performance

Accuracy (Non-Linearity & Hysteresis) < ±0.25% / FS (BFSL) for gauge reference Setting Errors (offsets) 2-wire Zero & Full Scale, <±0.5% / FS 3-wire Zero & Full Scale, <±0.5% / FS  $R_{max} = [(Supply-9min)/0.02]\Omega$ Permissible Load 2-wire

3-wire

Supply

Load

Influence Effects

Approx 3.5oz (100g)

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

rated connector)

> 50MOhms at 50Vdc

90°

Any, small zero shift when tilted through

IP67 (only when used with a similarly

**Electrical Protection** Supply reverse polarity Electromagnetic compatibility

No damage/no function **CE** Compliant

Mechanical Stability	
Shock	100g/11s
Vibration	10g RMS (20 - 2000Hz)
<b>Temperatures &amp; Thermal Effects</b>	
Media Temperature	-40°C to +125°C
Ambient Temperature	-20°C to +80°C
Storage temperature	-40°C to +125°C
Compensated temperature range	+20°C to +80°C
Thermal Zero Shift (TZS)	<±0.04% /FS/°C
Thermal Span Shift	<-0.015% /°C



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# Low Range Industrial Pressure Sensor with M12 4-Pin connector

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

Output Signals and Supply Voltages						
Wire system	Output	Supply Voltage	Connection Pin Nos			
2-wire	4-20mA	9-32Vdc	+ve Supply Pin 1	-ve Supply Pin 2	Ground Earth Pin	
3-wire	0-5Vdc	9-32Vdc	+ve Supply Pin 1	-ve Supply Pin 2		
			Output Pin 3	Earth Pin 4		

Part No	Pressure Range	Output
IPSLU-GP001-5M12	0-1 psi G	4-20mA
IPSLU-GP002-5M12	0-2 psi G	4-20mA
IPSLU-GP005-5M12	0-5 psi G	4-20mA
IPSLU-GP008-5M12	0-8 psi G	4-20mA
IPSLU-GP010-5M12	0-10 psi G	4-20mA
IPSLU-GP015-5M12	0-15 psi G	4-20mA
IPSLU-GP001-6M12	0-1 psi G	0 to 5V 3Wire
IPSLU-GP002-6M12	0-2 psi G	0 to 5V 3Wire
IPSLU-GP005-6M12	0-5 psi G	0 to 5V 3Wire
IPSLU-GP008-6M12	0-8 psi G	0 to 5V 3Wire
IPSLU-GP010-6M12	0-10 psi G	0 to 5V 3Wire
IPSLU-GP015-6M12	0-15 psi G	0 to 5V 3Wire

#### **Mechanical Dimensions**



#### IS09001 CERTIFIED

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