



IPSLU series

Low Range Industrial Pressure Sensor



The IPSLU 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.*

There is a choice of internal 0 ring seals to ensure that the device is compatible with a wide range of media.

Custom versions can be made for particular applications.

- 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

Options available on the IPSLU pressure transmitter.

Pressure range Pressure reference (G or Abs) Output type

Suitable applications

HVAC Mechanical engineering **Pneumatics Environmental engineering** Rainwater harvesting Automotive testing Agricultural machinery Tank gauging

Laboratory testing IBC, IBC Tote or pallet tank

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 3-wire Zero & Full Scale, <±0.5% / FS Permissible Load 2-wire $R_{max} = [(Supply-9min)/0.02]\Omega$ 3-wire $R_{\text{min}} = 10 \text{k}\Omega$ Influence Effects <0.005% FS / 1V Supply 0.05% FSO / $k\Omega$ Load

Material Specifications

303 Stainless Steel Housing

"0" ring seals Viton

Diaphragm 316L Stainless Steel

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

diaphragm

Miscellaneous

Current consumption 2 -wire Limits at 28mA

3-wire Typical 6mA

Approx 3.5oz (100g) Weight Installation position

Any, small zero shift when tilted through

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

Electrical Protection

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

Mechanical Stability

100g / 11s Shock

10g RMS (20 - 2000Hz) Vibration

Temperatures & Thermal Effects

-40°C to +125°C Media Temperature **Ambient Temperature** -20°C to +80°C -40°C to +125°C Storage temperature Compensated temperature range +20°C to +80°C Thermal Zero Shift (TZS) <±0.04% /FS/°C Thermal Span Shift <-0.015% /°C

*Calibration data is supplied as a sticker affixed to the product packaging - do not discard



cynergy3-ipslu-v2







IPSLU series

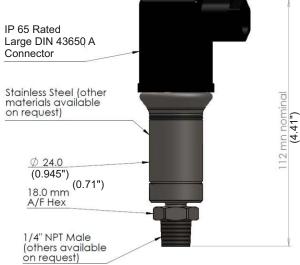
Low Range Industrial Pressure Sensor

Pressure Ra	inges						
	ssure, Gauge, psi ssure, Absolute psi	0.75	1.5	3.75	7.5 7.5	11.25 11.25	15 15
Permissible	Overpressure psi	30	30	30	75	75	75
Output Signa	als and Supply Voltages	DIN 43650 A					
Wire system	Output	Supply Volts		Connection		Pin No.	
2-wire	4-20mA	9-32Vdc		+ve Supply		Pin 1	
				-ve Supply		Pin 2	
				Ground		Earth pin	
3-wire	0.5 - 4.5Vdc (non-ratiometric)	9-32 Vdc		+ve Supply		Pin 1	
	0-10Vdc	13-32Vdc		-ve Supply		Pin 2	
				+ve Output		Pin 3	
				Ground		Earth Pin	

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Part No	Pressure Range	Output
IPSLU-GP001-5	0-1 psi G	4-20mA
IPSLU-GP002-5	0-2 psi G	4-20mA
IPSLU-GP005-5	0-5 psi G	4-20mA
IPSLU-GP008-5	0-8 psi G	4-20mA
IPSLU-GP010-5	0-10 psi G	4-20mA
IPSLU-GP015-5	0-15 psi G	4-20mA
IPSLU-GP001-D	0-1 psi G	0.5 to 4.5V 3Wire
IPSLU-GP002-D	0-2 psi G	0.5 to 4.5V 3Wire
IPSLU-GP005-D	0-5 psi G	0.5 to 4.5V 3Wire
IPSLU-GP008-D	0-8 psi G	0.5 to 4.5V 3Wire
IPSLU-GP010-D	0-10 psi G	0.5 to 4.5V 3Wire
IPSLU-GP015-D	0-15 psi G	0.5 to 4.5V 3Wire
IPSLU-AP005-5	0-5 psi A	4-20mA
IPSLU-AP010-5	0-10 psi A	4-20mA
IPSLU-AP015-5	0-15 psi A	4-20mA

Part No	Pressure Range	Output	
IPSLU-G0050-5	0 - 50mbar G	4-20mA	
IPSLU-G0100-5	0 - 100mbar G	4-20mA	
IPSLU-G0250-5	0 - 250mbar G	4-20mA	
IPSLU-G0500-5	0 - 500mbar G	4-20mA	
IPSLU-G0750-5	0 - 750mbar G	4-20mA	
IPSLU-G1000-5	0 - 1000mbar G	4-20mA	
IPSLU-G0050-D	0 - 50mbar G	0.5 to 4.5V 3Wire	
IPSLU-G0100-D	0 - 100mbar G	0.5 to 4.5V 3Wire	
IPSLU-G0250-D	0 - 250mbar G	0.5 to 4.5V 3Wire	
IPSLU-G0500-D	0 - 500mbar G	0.5 to 4.5V 3Wire	
IPSLU-G0750-D	0 - 750mbar G	0.5 to 4.5V 3Wire	
IPSLU-G1000-D	0 - 1000mbar G	0.5 to 4.5V 3Wire	
IPSLU-A0500-5	0 - 500mbar Abs	4-20mA	
IPSLU-A0750-5	0 - 750mbar Abs	4-20mA	
IPSLU-A1000-5	0 - 1000mbar Abs	4-20mA	

(Custom ranges and outputs available on request)



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Mouser Electronics

Authorized Distributor

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Sensata:

IPSLU-GP001-D