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 certificate.

There is a choice of internal O 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

Material Specifications

Housing 303 Stainless Steel

"0" ring seals Viton

Diaphragm 316L Stainless Steel

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

diaphragm

Miscellaneous

Weight

Current consumption 2 -wire Limits at 28mA 3-wire Typical 6mA

Approx 3.5oz (100g)

Installation position Any, small zero shift when tilted through

90°

Operational Life > 100x 10⁶ cycles Insulation resistance > 50MOhms at 50Vdc **Electrical Protection**

Supply reverse polarity

No damage/no function
Electromagnetic compatibility

CE Compliant

ctionagnetic compatibility - OL Compilan

Mechanical Stability

Shock 100g / 11s

Vibration 10g RMS (20 - 2000Hz)

Temperatures & Thermal Effects

 $\begin{array}{lll} \mbox{Media Temperature} & -40^{\circ}\mbox{C to } +125^{\circ}\mbox{C} \\ \mbox{Ambient Temperature} & -20^{\circ}\mbox{C to } +80^{\circ}\mbox{C} \\ \mbox{Storage temperature} & -40^{\circ}\mbox{C to } +125^{\circ}\mbox{C} \\ \mbox{Compensated temperature range} & +20^{\circ}\mbox{C to } +80^{\circ}\mbox{C} \\ \mbox{Thermal Zero Shift (TZS)} & <\pm0.04\%\ / \mbox{FS/}^{\circ}\mbox{C} \\ \mbox{Thermal Span Shift} & <-0.015\%\ /^{\circ}\mbox{C} \\ \end{array}$

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www.cynergy3.com





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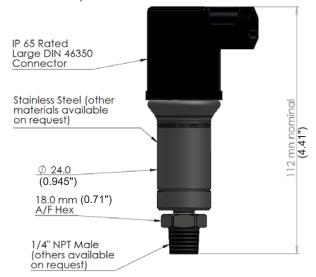
Pressure Ranges and Passive mV/V Outputs							
Nominal Pressure, Gauge, psi	0.75	1.5	3.75	7.5	11.25	15	
Nominal Pressure, Absolute psi				7.5	11.25	15	
Permissible Overpressure psi	30	30	30	75	75	75	

Output Signa	ols and Supply Voltages	DIN 43650		
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

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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