IPSL series

Low Range Industrial Pressure Sensor



The IPSL is suitable for use in a wide range of applications. The probe uses a piezoresistive 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 50 mbar to 1000 mbar
- Gauge or Absolute pressure reference

Options available on the IPSL 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 $R_{\scriptscriptstyle min}=10 k\Omega$ Influence Fffects < 0.005% FS / 1V Supply 0.05% FSO / $k\Omega$ Load

Material Specifications

Housing 303 Stainless Steel

"0" ring seals Viton

316L Stainless Steel Diaphragm

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

diaphragm

Miscellaneous

2 -wire Limits at 28mA **Current consumption**

3-wire Typical 6mA

Weight Approx 100g

Installation position

Any, small zero shift when tilted through

90°

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

Electrical Protection

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

Mechanical Stability

Shock 100g / 11s

10g RMS (20 - 2000Hz) Vibration

Temperatures & Thermal Effects

-40°C to +125°C Media Temperature **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

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

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Made in the UK

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Pressure Ranges and Passive mV/V Outputs							
Nominal Pressure, Gauge, mb	bar 5	50	100	250	500	750	1000
Nominal Pressure, Absolute mb	bar				500	750	1000
Permissible Overpressure mb	bar 2	2 bar	2 bar	2 bar	5 bar	5 bar	5 bar

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
			-ve Supply	Pin 2
			+ve Output	Pin 3
			Ground	Earth Pin

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



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