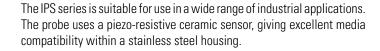


## **IPS SERIES**

### INDUSTRIAL PRESSURE TRANSDUCER - CERAMIC





The electronics incorporate a microprocessor based amplifier, requiring no adjusting and giving stable electronics, especially industrial applications.

Each device is temperature compensated, calibrated and supplied with a traceable serial number and calibration data.\*

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

#### **Features**

- Piezo-resistive thick film ceramic sensor
- Stainless steel body
- Accuracy <±0.25% FS BFSL
- · Various outputs including mV, Volts and mA
- Pressure ranges from -1 to 400 bar
- 1/4" BSP Pressure port connection



### Performance

Accuracy (Non-linearity & Hysteresis)	<±0.25% / FS (BFSL)			
Setting Errors (Offsets)	2-wire	Zero & Full Scale, <±0.5% / FS		
	3-wire	Zero & Full Scale, <±0.5% / FS		

### Material

Housing	303 Stainless Steel			
"O" Ring Seals	Viton			
Diaphragm	Ceramic Al <sub>2</sub> O <sub>3</sub> 96%			
Media Wetted Parts	Housing & connection, 'O' ring seal, diaphragm			
Weight	Approx 100g			
Installation Position	Any			
Operation Life	> 100 x 10 <sup>6</sup> cycles			
Insulation Resistance	> 50M0hms at 50Vdc			

### **Electrical Protection**

Supply Reverse Polarity	No damage/no function
Electromagnetic Compatibility	UKCA, CE EMC directive · BS EN 61326-1:2013

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### **Environmental Conditions**

Shock	100g / 11s
Vibration	10g RMS (20 - 2000Hz)
Media Temperature	-40°C to +135°C
Ambient Temperature	-20°C to +80°C
Storage Temperature	-40°C to +125°C
Humidity	5% to 95% RH non-condensing

# Temperature & Thermal Effects

Compensated Temperature Range	+20°C to +80°C
Thermal Zero Shift (TZS)	<±0.04% /FS/°C
Thermal Span Shift	<±0.015% /°C



# PRESSURE RANGES

## Pressure Ranges & Passive mV/V Outputs

Nominal Pressure, Gauge	bar	1	6	10	16	25	40	100	250	400
Compound Range	bar			-1 to +9		-1 to +24				
Permissible Overpressure	bar	2	10	15	35	100	100	150	350	500
Burst Pressure	bar	3	12	20	50	120	120	200	500	650

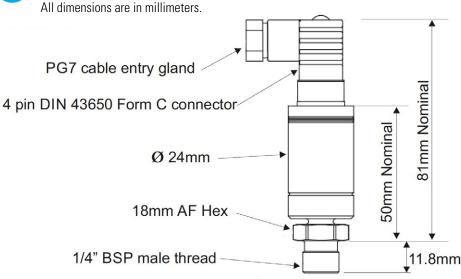
# Output Signal & Supply Voltage

Wire System	Output	Supply Voltage	Connection Pin Nos		
2-wire	4 - 20mA	9 – 32V dc	+ve Supply Pin 1	-ve Supply Pin 2	Ground Earth Pin
2		0 33/14-	+ve Supply Pin 1	-ve Supply Pin 2	
3-wire 0 - 5V dc	0 - 5V dc	V dc 9 – 32V dc	+ve Output Pin 3	Ground Earth Pin	

Part Number	Pressure Rating	Output
IPS-G1000-5	0 - 1 Bar G	4 - 20mA
IPS-G1000-6	0 - 1 Bar G	0 - 5V
IPS-G6000-5	0 - 6 Bar G	4 - 20mA
IPS-G6000-6	0 - 6 Bar G	0 - 5V
IPS-GM1P9-5	-1 to +9 Bar G	4 - 20mA
IPS-GM1P9-6	-1 to +9 Bar G	0 - 5V
IPS-G1002-5	0 - 10 Bar G	4 - 20mA
IPS-G1002-6	0 - 10 Bar G	0 - 5V
IPS-G1602-5	0 - 16 bar G	4-20mA
IPS-G1602-6	0 - 16 bar G	0-5V

Part Number	Pressure Rating	Output
IPS-C0184-5	-1 to +24 Bar G	4 - 20mA
IPS-C0184-6	-1 to +24 Bar G	0 - 5V
IPS-G2502-5	0 - 25 Bar G	4 - 20mA
IPS-G2502-6	0 - 25 Bar G	0 - 5V
IPS-G4002-5	0 - 40 Bar G	4 - 20mA
IPS-G4002-6	0 - 40 Bar G	0 - 5V
IPS-G1003-5	0 - 100 Bar G	4 - 20mA
IPS-G1003-6	0 - 100 Bar G	0 - 5V
IPS-G2503-5	0 - 250 Bar G	4 - 20mA
IPS-G2503-6	0 - 250 Bar G	0 - 5V
IPS-G4003-5	0 - 400 Bar G	4 - 20mA
IPS-G4003-6	0 - 400 Bar G	0 - 5V





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