



## Industrial Pressure Sensor - Ceramic - with M12 4-Pin Connector



- Piezo-resistive thick film ceramic sensor
- Stainless steel body
- Accuracy <±0.25% FS BFSL</li>
- 0-5V or 4-20mA output
- Pressure ranges from -14.5 to 5800 psi
- M12 4-pin connector
- 1/4" NPT process connection

The IPSU-M12 series is suitable for use in a wide range of industrial applications. The probe uses a piezo-resistive ceramic sensor, giving excellent media compatibility within a stainless steel housing

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.  $^{\star}$ 

Mating cable and plug assemblies are available - see datasheet M12 Cable Set Series

<b>Electrical Protection</b>			Performan	ce					
Supply reverse polarity	No damage/no fu	nction	Accuracy (1	Von-Lineari	ty & Hyster	esis) <	<±0.25% / FS (BFSL)		
Electromagnetic compatibility	CE Compliant		Setting Erro	ors (offsets	) 2-1	wire Z	Zero & Full Scale, $<\pm0.5\%$ / FS		
					3-1	wire Z	Zero & Full Scale, $<\pm0.5\%$ / FS		
Mechanical Stability			<b>Material S</b>	pecificatio	ns				
Shock	100g / 11s	100g / 11s		Housing			316L Stainless Steel		
Vibration		10g RMS (20 - 2000Hz)		"0" ring seals		Viton			
Temperatures & Thermal Effec	ts		Diaphragm		C.	eramic A	I <sub>2</sub> O <sub>3</sub> 96%		
Media Temperature	-40°C to +135°C		Media wet				connection, "O" ring seal,		
Ambient Temperature	-20°C to +80°C	-20°C to +80°C		Media Wetted parts			diaphragm		
Storage temperature	-40°C to +125°C		Weight			pprox 10			
Compensated temperature rang	$+20^{\circ}\text{C} \text{ to } +80^{\circ}\text{C}$	+20°C to +80°C <±0.04% /FS/°C				Any > 100x 10 <sup>6</sup> cycles > 50M0hms at 50Vdc			
Thermal Zero Shift (TZS)	<±0.04% /FS/°C								
Thermal Span Shift	<±0.015% /°C		Operational Life Insulation resistance						
							when used with a similarly		
						rated connector)			
Pressure Ranges and Passive n	1V/V Outputs								
Nominal Pressure, Gauge, psi	15 30	75 150	300	750	1500	3750	6000		
Compound range psi -7.5 to 0 -7.5 to 30-15 to 75 -15 to 1235 -15 to 285 -15 to 360									
Permissible Overpressure psi	30 60	150 300	600	1500	3000	6000	9750		
Burst Pressure psi	60 75	180 375	750	1800	3750	7500	9750		
<b>Output Signals and Supply Volt</b>	ages								
Wire system Output		Supply Voltage		Connection Pin Nos					
2-wire 4-20m/			+ve Supply		-ve Supp	ply Pin 2	2 Ground Earth Pin		
3-wire 0-5Vdc	9-32Vdc		+ve Supply	Pin 1	-ve Supp	ply Pin 2			

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

Earth Pin 4

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Output Pin 3



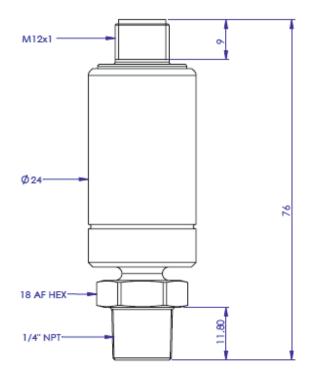
## **IPSU-M12 Series**

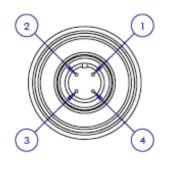
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Part Number	Range	Output
IPSU-GP015-5M12	0-15 psi G	4-20mA
IPSU-GP015-6M12	0-15 psi G	0-5V
IPSU-GP030-5M12	0-30 psi G	4-20mA
IPSU-GP030-6M12	0-30 psi G	0-5V
IPSU-C0446-5M12	-14.5 to +150 psi G	4-20mA
IPSU-C0446-6M12	-14.5 to +150 psi G	0-5V
IPSU-GP075-5M12	0-75 psi G	4-20mA
IPSU-GP075-6M12	0-75 psi G	0-5V
IPSU-GP100-5M12	0-100 psi G	4-20mA
IPSU-GP100-6M12	0-100 psi G	0-5V
IPSU-C0447-5M12	-14.5 to +350 psi G	4-20mA
IPSU-C0447-6M12	-14.5 to +350 psi G	0-5V
IPSU-GP150-5M12	0-150 psi G	4-20mA
IPSU-GP150-6M12	0-150 psi G	0-5V
IPSU-GP300-5M12	0-300 psi G	4-20mA
IPSU-GP300-6M12	0-300 psi G	0-5V
IPSU-GP750-5M12	0-750 psi G	4-20mA
IPSU-GP750-6M12	0-750 psi G	0-5V
IPSU-GP1K5-5M12	0-1500 psi SG*	4-20mA
IPSU-GP1K5-6M12	0-1500 psi SG*	0-5V
IPSU-GP3K6-5M12	0-3600 psi SG*	4-20mA
IPSU-GP3K6-6M12	0-3600 psi SG*	0-5V
IPSU-GP5K8-5M12	0-5800 psi SG*	4-20mA
IPSU-GP5K8-6M12	0-5800 psi SG*	0-5V

<sup>\*</sup> sealed gauge

## **Mechanical Dimensions**





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