

### **IPSU-M12 Series**

## 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. \*

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

<b>Electrical Protection</b>						Performan	ice					
Supply reverse polarity Electromagnetic compatibility		No damage/no function CE Compliant				0 , ,		teresis) 2-wire 3-wire	re Zero & Full Scale, <±0.5% /			
Mechanical Stability						Material Specifications						
Shock Vibration		100g / 11s 10g RMS (20 - 2000Hz)				Housing "O" ring seals			316L Stainless Steel Viton			
Temperatures & Therma Media Temperature Ambient Temperature Storage temperature Compensated temperatu Thermal Zero Shift (TZS) Thermal Span Shift		-40°C to +135°C -20°C to +80°C -40°C to +125°C +20°C to +80°C <±0.04% /FS/°C <±0.015% /°C			Diaphragm Media wetted parts  Weight Installation position Operational Life Insulation resistance Environmental protection			Ceramic Al <sub>2</sub> O <sub>3</sub> 96% Housing & connection, "O" ring seal, diaphragm Approx 100g Any > 100x 10 <sup>6</sup> cycles > 50MOhms at 50Vdc IP67 (only when used with a similarly rated connector)				
<b>Pressure Ranges and Pa</b>	ssive mV/	/ Outputs										
Nominal Pressure, Gauge, Compound range	psi psi	15 -7.5 to 0	30 -7.5 to 30	75 1-15 to 75	150 -15 to	300 1235 -15 to	750 o 285 -15 to	1500 o 360	37	50	6000	
Permissible Overpressure Burst Pressure	psi psi	30 60	60 75	150 180	300 375		1500 1800	3000 3750	60 75		9750 9750	
<b>Output Signals and Supp</b>	ly Voltage	es e e										
	Output		Supply	Voltage		Connection	Pin Nos					
2-wire	4-20mA		9-32Vc	lc		+ve Supply	Pin 1	-ve Sı	ipply Pir	1 2	Ground Earth F	in
3-wire	0-5Vdc		9-32Vd	lc		+ve Supply Output Pir		-ve Sı Earth	ıpply Pin Pin 4	2		

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

Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE Telephone +44 (0) 1202 897969

Email:sales@cynergy3.com





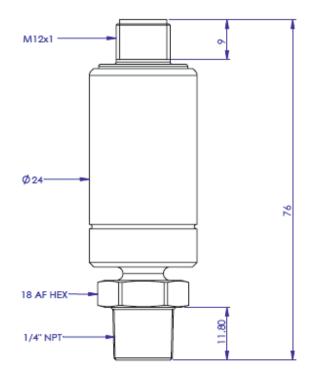
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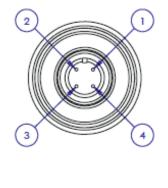
# Industrial Pressure Sensor - Ceramic - with M12 4-Pin Connector

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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