



# **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.  $^{\ast}$ 

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

Electrical Protection			Pe	erformand	e				
Supply reverse polarity Electromagnetic compatibility	No damage/no CE Compliant	function		0 1 1 1 1		teresis) 2-wire 3-wire		/ FS (BFSL) Scale, <±0.5% / FS Scale, <±0.5% / FS	
Mechanical Stability			M	aterial Sn	ecificatio	ns			
Shock Vibration <b>Temperatures &amp; Thermal Effects</b> Media Temperature	100g / 11s 10g RMS (20 - 2000Hz)		H "( D	Housing "O" ring seals Diaphragm			316L Stainless Steel Viton Ceramic Al <sub>2</sub> O <sub>3</sub> 96%		
Ambient Temperature Storage temperature Compensated temperature range 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		W In O In	Media wetted parts Weight Installation position Operational Life Insulation resistance Environmental protection			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)		
Pressure Ranges and Passive mV/V	/ Outputs								
Nominal Pressure, Gauge, psi	15 30	75	150	300	750	1500	37	50 6000	
Compound range psi	-7.5 to 0 -7.5 to 30								
Permissible Overpressure psi	30 60	150	300	600	1500	3000	60		
Burst Pressure psi	60 75	180	375	750	1800	3750	75	00 9750	
Output Signals and Supply Voltage		Valtaga			D: 11				

Wire system	Output	Supply Voltage	<b>Connection Pin Nos</b>		
2-wire	4-20mA	9-32Vdc	+ve Supply Pin 1	-ve Supply Pin 2	Ground Earth Pin
3-wire	0-5Vdc	9-32Vdc	+ve Supply Pin 1	-ve Supply Pin 2	
			Output Pin 3	Earth Pin 4	

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

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#### IS09001certified

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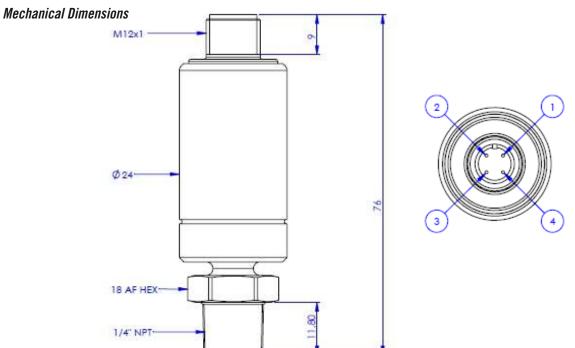


## **IPSU-M12 Series**

### 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

\* sealed gauge



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# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Sensata:

IPSU-C0446-5M12 IPSU-GP1K5-5M12 IPSU-GP1K5-6M12 IPSU-GP300-6M12 IPSU-GP030-6M12