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
- 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

Electrical Protection		Performance			
Supply reverse polarity Electromagnetic compatibility	No damage/no function CE Compliant	Accuracy (Non-Linearity & H Setting Errors (offsets)	ysteresis) <±0.25% / FS (BFSL) 2-wire Zero & Full Scale, <±0.5% / FS 3-wire Zero & Full Scale, <±0.5% / FS		
Mechanical Stability		Material Specifications			
Shock Vibration	100g / 11s 10g RMS (20 - 2000Hz)	Housing "O" ring seals	316L Stainless Steel Viton		
Temperatures & Thermal Effects Media Temperature 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	Diaphragm Media wetted parts Weight Installation position Operational Life Insulation resistance Environmental protection	Ceramic Al ₂ O ₃ 96% Housing & connection, "O" ring seal, diaphragm Approx 100g Any > 100x 10 ⁶ cycles > 50MOhms at 50Vdc IP67 (only when used with a similarly rated connector)		
Pressure Ranges and Passive mV/V (Dutputs				

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 12	35 -15 to	285 -15 t	o 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

Output Signals an	nd Supply Voltages				
Wire system	Output	Supply Voltage	Connection Pin Nos		
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	

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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

Mechanical Dimensions





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