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 Supply reverse polarity Electromagnetic compatibility		mage/no mpliant	function		Performanc Accuracy (No Setting Error	on-Lineari)	teresis) 2-wire 3-wire	Zero	1.25% / FS (BFSL) & Full Scale, <±0.5% / FS & Full Scale, <±0.5% / FS
Mechanical Stability Shock	100 a	/ 110			Material Sp	ecificatio	ns			
Vibration	100g / 11s 10g RMS (20 - 2000Hz)				Housing "O" ring seals			316L Stainless Steel Viton		
Temperatures & Thermal Effects	4.000	1 1050	0		Diaphragm				AI_2O_3	96%
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			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	37	50	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

Output Signals an	d 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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ISO9001 CERTIFIED

IPSU-M12 2018



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

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IPSU-M12 Series

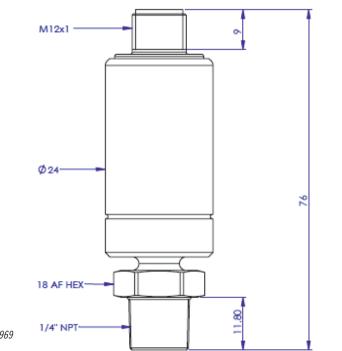


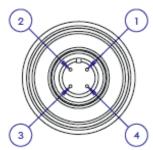
Industrial Pressure Sensor - Ceramic - with M12 4-Pin Connector

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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Mouser Electronics

Authorized Distributor

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Sensata:

 IPSU-C0446-6M12
 IPSU-C0447-5M12
 IPSU-C0447-6M12
 IPSU-GP015-5M12
 IPSU-GP015-6M12
 IPSU-GP3K6-5M12

 5M12
 IPSU-GP3K6-6M12
 IPSU-GP5K8-5M12
 IPSU-GP5K8-6M12
 IPSU-GP750-5M12
 IPSU-GP750-6M12
 IPSU-GP150-5M12
 IPSU-GP150-6M12
 IPSU-GP075-6M12
 IPSU-GP075-6M12
 IPSU-GP075-6M12

 IPSU-GP100-5M12
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