



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			Performan	ce			
Supply reverse polarity	No damage/no functi	on	Accuracy (I	Non-Linear	ity & Hyst	teresis)	<±0.25% / FS (BFSL)
Electromagnetic compatibility	CE Compliant		Setting Err	ors (offsets		2-wire	Zero & Full Scale, $<\pm0.5\%$ / FS
					3	3-wire	Zero & Full Scale, $<\pm0.5\%$ / FS
Mechanical Stability			Material S	pecificatio	ıns		
Shock	100g / 11s		Housing			316L Sta	ninless Steel
Vibration	10g RMS (20 - 2000H	lz)	"0" ring se	eals		Viton	
Temperatures & Thermal Effects	S		Diaphragm	1		Ceramic	Al ₂ O ₃ 96%
Media Temperature	-40°C to +135°C		Media wet				& connection, "O" ring seal,
Ambient Temperature	-20°C to +80°C		moura mou	ou purto		diaphrag	
Storage temperature	-40°C to +125°C		Weight			Approx 1	
Compensated temperature range			Installation	n position		Any	
Thermal Zero Shift (TZS)	<±0.04% /FS/°C		Operationa				10 ⁶ cycles
Thermal Span Shift	<±0.015% /°C		Insulation				hms at 50Vdc
			Environme	ntal protec	tion	IP67 (onl	ly when used with a similarly
						rated cor	nnector)
Pressure Ranges and Passive m\	//V Outputs						
Nominal Pressure, Gauge, psi	15 30 75	15	0 300	750	1500	375	50 6000
Compound range psi	-7.5 to 0 -7.5 to 30-15 to	75 -15 to	o 1235 -15 to	285 -15 t	o 360		
Permissible Overpressure psi	30 60 150	30	0 600	1500	3000	600	00 9750
Burst Pressure psi	60 75 180	37	5 750	1800	3750	750	00 9750
Output Signals and Supply Volta	ges						
Wire system Output	Supply Voltag	е	Connection	Pin Nos			
2-wire 4-20mA	9-32Vdc		+ve Supply	Pin 1	-ve Su	ıpply Pin	2 Ground Earth Pin
3-wire 0-5Vdc	9-32Vdc		+ve Supply	Pin 1	-ve Su	ipply 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



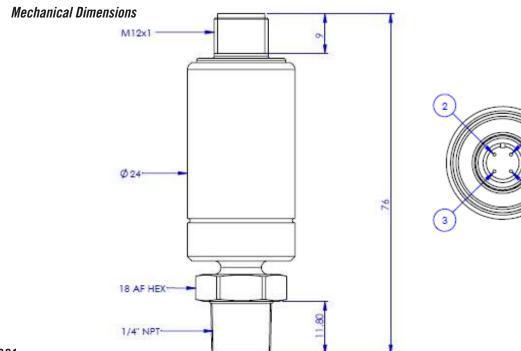


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Part Number	Range	Output
IPSU-GP015-5M12	0-15 psi G	4-20mA
IPSU-GP015-6M12	0-15 psi G	0-5V
IPSU-GP030-5M12	0-30 psi G	4-20mA
IPSU-GP030-6M12	0-30 psi G	0-5V
IPSU-C0446-5M12	-14.5 to +150 psi G	4-20mA
IPSU-C0446-6M12	-14.5 to +150 psi G	0-5V
IPSU-GP075-5M12	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

^{*} sealed gauge



www.cynergy3.com

Mouser Electronics

Authorized Distributor

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Sensata:

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