



IPS-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 -1 to 400 bar
- M12 4-pin connector

The IPS-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				F	Performanc	e				
Supply reverse polarity	No damage/no function				Accuracy (Non-Linearity & Hys				<±0.25% / FS (BFSL)	
Electromagnetic compatibility	CE Compliant		5	Setting Errors (offsets)			2-wire 3-wire	Zero & Full Scale, $<\pm0.5\%$ / FS Zero & Full Scale, $<\pm0.5\%$ / FS		
Environmental Conditions								D-WITE	20.3 / 13	
Shock	100 a / 1	10			Material Sp	ecification	IS			
Vibration	-	100g / 11s 10g RMS (20 - 2000Hz) -40°C to +135°C -20°C to +80°C -40°C to +125°C 5% to 95% RH non-condensing			Housing			316L Stainless Steel		
Media Temperature	-				"0" ring seals			Viton		
Ambient Temperature					Diaphragm			Ceramic Al ₂ O ₃ 96%		
Storage temperature					Media wetted parts			Housing & connection, "O" ring seal,		
Humidity								diaphragm		
					Weight			Approx 100g		
Thermal Effects					Installation			Any		
Compensated temperature range	+20⁰C to	+20°C to +80°C			Operational Life			$> 100 \times 10^6$ cycles		
Thermal Zero Shift (TZS)	<±0.04	<±0.04% /FS/°C			Insulation resistance			> 50MOhms at 50Vdc		
Thermal Span Shift	<±0.01	<±0.015% /℃			Environmental protection			IP67 (when used with a similarly		
								rated co	onnector)	
Pressure Ranges and Passive mV/V	Outputs									
Nominal Pressure, Gauge, bar	1	2	5	10	20	50	100	25	0 400	
Compound range bar	-0.5 to 0			-1 to 9		-1 to 24				
Permissible Overpressure bar	2	4	10	20	40	100	200	40		
Burst Pressure bar	4	5	12	25	50	120	250	50	0 650	
Output Signals and Supply Voltages	S									
Wire system Output	Supply Voltage			(Connection Pin Nos					
2-wire 4-20mA		9-32Vdc						ıpply Pir		
3-wire 0-5Vdc		9-32Vdc						Supply Pin 2		
				(Output Pin	3	Earth Pin			

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

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IS09001certified

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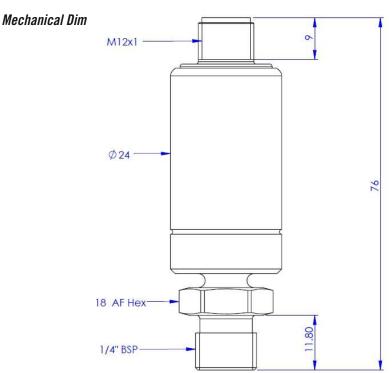


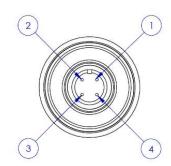
IPS-M12 Series

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Part Number	Pressure Rating	Output
IPS-G1000-5M12	0 - 1 Bar G	4 - 20mA
IPS-G1000-6M12	0 - 1 Bar G	0 - 5V
IPS-G6000-5M12	0 - 6 Bar G	4 - 20mA
IPS-G6000-6M12	0 - 6 Bar G	0 - 5V
IPS-GM1P9-5M12	-1 to +9 Bar G	4 - 20mA
IPS-GM1P9-6M12	-1 to +9 Bar G	0 - 5V
IPS-G1002-5M12	0 - 10 Bar G	4 - 20mA
IPS-G1002-6M12	0 - 10 Bar G	0 - 5V
IPS-G1602-5M12	0 - 16 bar G	4-20mA
IPS-G1602-6M12	0 - 16 bar G	0-5V
IPS-C0184-5M12	-1 to +24 Bar G	4 - 20mA
IPS-C0184-6M12	-1 to +24 Bar G	0 - 5V
IPS-G2502-5M12	0 - 25 Bar G	4 - 20mA
IPS-G2502-6M12	0 - 25 Bar G	0 - 5V
IPS-G4002-5M12	0 - 40 Bar G	4 - 20mA
IPS-G4002-6M12	0 - 40 Bar G	0 - 5V
IPS-G1003-5M12	0 - 100 Bar SG*	4 - 20mA
IPS-G1003-6M12	0 - 100 Bar SG*	0 - 5V
IPS-G2503-5M12	0 - 250 Bar SG*	4 - 20mA
IPS-G2503-6M12	0 - 250 Bar SG*	0 - 5V
IPS-G4003-5M12	0 - 400 Bar SG*	4 - 20mA
IPS-G4003-6M12	0 - 400 Bar SG*	0 - 5V

* sealed gauge





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