IPSS series Semi-Flush Mount Pressure Transmitter



The semi-flush mount pressure transmitter, IPSS, has a piezo-resistive silicon or ceramic pressure sensor. The sensor is semi-flush to the housing making this product ideal for viscous or paste like media. The sensor and housing are made from stainless steel with a choice of internal '0' ring seals to ensure the product is suitable for a wide range of applications.

The electronics incorporate a microprocessor-based amplifier, requiring no adjusting and giving stable electronics - especially in high vibration or shock applications.

Every device is temperature compensated, calibrated and supplied with a traceable serial number and calibration data.*

Material Creatificat

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IPSS 2018

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- Piezo-resistive sensor, Ceramic or Silicon .
- Accuracy <±0.25% FS BFSL
- Various outputs including Volts and mA.
- Pressure ranges from 100mbar to 100 bar
- Pressure reference, Gauge or Absolute

Suitable applications

Environmental engineering Static tank level Viscous and paste-like media Composite manufacturing Process control

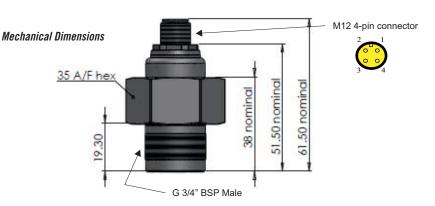
Performance

Accuracy (Non-Linearity & Hysteresis) Setting Errors (offsets) 2-wire 3-wire Permissible Load 2-wire 3-wire Supply

Influence Effects

Automotive testing Process pumping Sewage or grey water Injection moulding or infusion Aggressive media

<±0.25% / FS (BFSL) Zero & Full Scale, <±0.5% / FS Zero & Full Scale, <±0.5% / FS $R_{max} = [(VS-VSmin)/0.02]\Omega$ $R_{min} = 10 k\Omega$ <0.005% FS / 1V 0.05% FS0 / k Ω



Load

Flectrical Protection

Material Specifications	
Housing "O" ring seals Diaphragm Media wetted parts	303 Stainless Steel Viton 316L Stainless Steel or Ceramic Housing & process connection, "O" ring seal, diaphragm
Miscellaneous	
Current consumption	2 -wire - limits at 28mA 3-wire - typical 6mA
Weight	Approx 100g
Installation position	Any, small zero shift when tilted through 90° for silicon
Operational Life	$> 100 \text{ x } 10^{\circ} \text{ cycles}$
Insulation resistance	> 50MOhms at 50Vdc
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Supply reverse polarity	No damage but also no function					
Electromagnetic compatibility	CE Compliant					
Mechanical Stability						
Shock	100g / 11s					
Vibration	10g RMS (20 - 2000Hz)					
Temperatures & Thermal Effects						
Media Temperature	-40°C to +125°C -20°C to +80°C					
Ambient Temperature						
Storage temperature	-40°C to +125°C					
Compensated temperature	+20°C to +80°C					
Thermal Zero Shift (TZS)	<±0.04% /FS/°C					
Thermal Span Shift (TSS)	<-0.015% /°C					

IS09001certified



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IPSS series Semi-Flush Mount Pressure Transmitter

Input Press	ure Ranges										
	ssure, Gauge,	Bar	0.1	0.5	1	2	5	10	20	50	100
Nominal pres	ssure*, Absolute	Bar	-	-	1	2	5	10	20	-	-
Nominal pres	ssure*, Compound	Bar	-1 to +1	-1 to +5	-1 to+9	-1 to +19					
Permissible	Overpressure	Bar	2	2	5	5	10	20	50	100	200
* Ceramic se	* Ceramic sensor only										
Output Sign	al and Supply Voltage	Wiring Designation									
Wire system	Output	S	Supply Volts		Connection		Pin No.	. (M12 4-p	in connector)	
2-wire	4-20mA	9	-32Vdc		+ve Supply		Pin 1				
					-ve Supply		Pin 2		2	1	
					Ground		Pin 3				
3-wire	0-10Vdc (non-ratiometric)		4-32 Vdc		+ve Supply		Pin 1			$\overline{0}$	
					-ve Supply		Pin 2		3		
					+ve Output		Pin 3		5	4	
					Ground		Pin 4				

Part No	Sensor type	Pressure Range	Output
		,	
IPSS-G0100-5S	Silicon	0-100mbar G (0-1.4psi)	4-20mA
IPSS-G0500-5S	Silicon	0-500mbar G (0-7.25psi)	4-20mA
IPSS-G1000-5S	Silicon	0-1000mbar G (0-14.5psi)	4-20mA
IPSS-G2000-5C	Ceramic	0-2 Bar G (0-29psi)	4-20mA
IPSS-G5000-5C	Ceramic	0-5 Bar G (0-73psi)	4-20mA
IPSS-G1002-5C	Ceramic	0-10 Bar G (0-145psi	4-20mA
IPSS-G2002-5C	Ceramic	0-20 Bar G (0-290psi)	4-20mA
IPSS-G5002-5C	Ceramic	0-50 Bar G (0-725psi)	4-20mA
IPSS-G1003-5C	Ceramic	0-100 Bar G(1450psi)	4-20mA
IPSS-G0100-7S	Silicon	0-100mbar G (0-1.4psi)	0-10V
IPSS-G0500-7S	Silicon	0-500mbar G (0-7.25psi)	0-10V
IPSS-G1000-7S	Silicon	0-1000mbar G (0-14.5psi)	0-10V
IPSS-G2000-7C	Ceramic	0-2 Bar G (0-29psi)	0-10V
IPSS-G5000-7C	Ceramic	0-5 Bar G (0-73psi)	0-10V
IPSS-G1002-7C	Ceramic	0-10 Bar G (0-145psi	0-10V
IPSS-G2002-7C	Ceramic	0-20 Bar G (0-290psi)	0-10V
IPSS-G5002-7C	Ceramic	0-50 Bar G (0-725psi)	0-10V
IPSS-G1003-7C	Ceramic	0-100 Bar G(1450psi)	0-10V
IPSS-GM1P1-5C	Ceramic	-1 to +1 Bar G (-14.5 to + 14.5psi)	4-20mA
IPSS-GM1P5-5C	Ceramic	-1 to +5 Bar G (-14.5 to +73psi)	4-20mA
IPSS-GM1P9-5C	Ceramic	-1 to +9 Bar G (-14.5 to +131psi)	4-20mA
IPSS-C0072-5C	Ceramic	-1 to +19 Bar G (-14.5 to +276psi)	4-20mA
IPSS-A1000-5C	Ceramic	0-1 Bar Abs (0-14.5psiA)	4-20mA
IPSS-A2000-5C	Ceramic	0-2 Bar Abs (0-29psiA)	4-20mA
IPSS-A5000-5C	Ceramic	0-5 Bar Abs (0-73psiA)	4-20mA
IPSS-A1002-5C	Ceramic	0-10 Bar Abs (0-1345psiA)	4-20mA

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