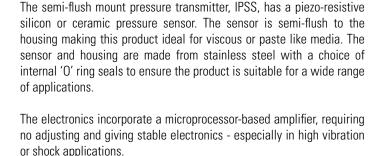


| IPSS SERIES

SEMI-FLUSH MOUNT PRESSURE TRANSMITTER





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

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

Features

- Piezo-resistive sensor, Ceramic
- Accuracy <±0.25% FS BFSL
- mA output available
- Pressure ranges from -1 Bar to +19Bars
- Pressure reference, Gauge or Absolute
- 3/4" BSP Pressure port connection

Suitable Applications

- Environmental engineering
- Static tank level
- Viscous and paste-like media
- Composite manufacturing
- Process control
- Automotive testing
- Process pumping
- Sewage or grey water
- Injection moulding or infusion
- · Aggressive media

SPECIFICATIONS

Performance

Accuracy (Non-linearity & Hysteresis)	<±0.25% / FS (BFSL)		
Setting Errors (Offsets)	2-wire Zero & Full Scale, <±0.5% / FS		
Permissible Load	2-wire $R_{max} = [(VS-VSmin)/0.02] \Omega$		
Influence Effects	Supply	<0.005% FS / 1V	
	Load	0.05% FSO / kΩ	

Material

Housing	303 Stainless Steel	
"O" Ring Seals	Viton	
Diaphragm	316L Stainless Steel or Ceramic	
Media Wetted Parts	Housing & process connection, 'O' ring seal, diaphragm	

Miscellaneous

Current Consumption	2-wire Limits at 28mA	
Weight	Approx 100g	
Installation Position	Any, small zero shift when tilted through 90° for silicon	
Operation Life	> 100 x 10 ⁶ cycles	
Insulation Resistance	> 50M0hms at 50Vdc	

Electrical Protection

Supply Reverse Polarity	No damage/no function	
Electromagnetic Compatibility	CE EMC directive · EN 61326-1:2013	

Environmental Conditions

Shock	100g / 11s	
Vibration	10g RMS (20 - 2000Hz)	
Media Temperature	-40°C to +125°C	
Ambient Temperature	-20°C to +80°C	
Storage Temperature	-40°C to +125°C	
Humidity	5% to 95% RH non-condensing	

Temperature & Thermal Effects

Compensated Temperature	+20°C to +80°C
Thermal Zero Shift (TZS)	<±0.04% /FS/°C
Thermal Span Shift (TSS)	<-0.015% /°C



Input Pressure Ranges

Nominal Pressure, Gauge	Bar	2	5	
Nominal Pressure Absolute	Bar	2		
Nominal Pressure Compound	Bar		-1 to +5	-1 to +19
Permissible Overpressure	Bar	4	10	35

Output Signal & Supply Voltage

Wiring Designation

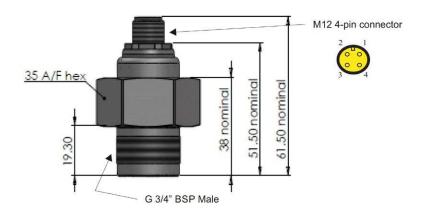
Wire System	Output	Supply Volts	Connection	Pin No. (M12 4-pin connector)
			+ve Supply	Pin 1
2-wire 4 - 20mA	4 - 20mA	9 – 32V dc	-ve Supply	Pin 2
			Ground	



Part No	Sensor type	Pressure Range	Output
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-GM1P5-5C	Ceramic	-1 to +5 Bar G (-14.5 to +73psi)	4-20mA
IPSS-C0072-5C	Ceramic	-1 to +19 Bar G (-14.5 to +276psi)	4-20mA
IPSS-A2000-5C	Ceramic	0-2 Bar Abs (0-29psiA)	4-20mA



All dimensions are in millimeters.



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