



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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IPSS series

Semi-Flush Mount Pressure Transmitter



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

Suitable applications

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

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 'O' ring seals to ensure the product is suitable for a wide range of applications.

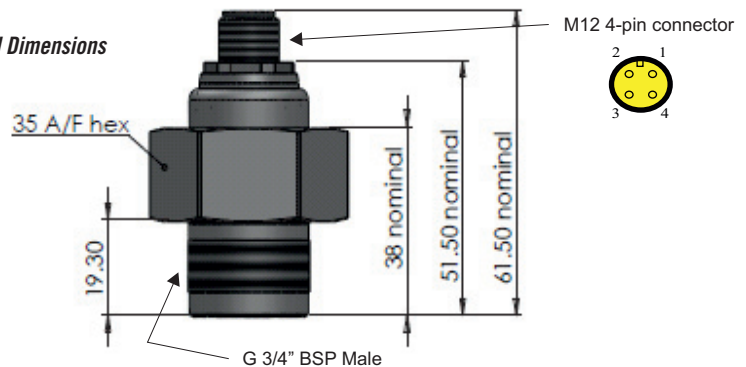
Performance

Accuracy (Non-Linearity & Hysteresis)		$\leq \pm 0.25\%$ / FS (BFSL)
Setting Errors (offsets)	2-wire	Zero & Full Scale, $\leq \pm 0.5\%$ / FS
	3-wire	Zero & Full Scale, $\leq \pm 0.5\%$ / FS
Permissible Load	2-wire	$R_{max} = [(VS - VS_{min}) / 0.02] \Omega$
	3-wire	$R_{min} = 10k\Omega$
Influence Effects	Supply	$< 0.005\%$ FS / 1V
	Load	0.05% FS0 / $k\Omega$

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 certificate.

Mechanical Dimensions



Material Specifications

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 3-wire - typical 6mA
Weight	Approx 100g
Installation position	Any, small zero shift when tilted through 90° for silicon
Operational Life	$> 100 \times 10^6$ cycles
Insulation resistance	$> 50M\Omega$ at 50Vdc

Electrical Protection

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
Ambient Temperature	-20°C to +80°C
Storage temperature	-40°C to +125°C
Compensated temperature	+20°C to +80°C
Thermal Zero Shift (TZS)	$\leq \pm 0.04\%$ / FS/°C
Thermal Span Shift (TSS)	$\leq -0.015\%$ / °C

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IPSS series

Semi-Flush Mount Pressure Transmitter

Input Pressure Ranges

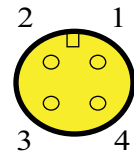
Nominal pressure, Gauge,	Bar	0.1	0.5	1	2	5	10	20	50	100
Nominal pressure*, Absolute	Bar	-	-	1	2	5	10	20	-	-
Nominal pressure*, Compound	Bar	-1 to +1	-1 to +5	-1 to +9	-1 to +19					
Permissible Overpressure	Bar	2	2	5	5	10	20	50	100	200

* Ceramic sensor only

Output Signal and Supply Voltage

Wiring Designation

Wire system	Output	Supply Volts	Connection	Pin No. (M12 4-pin connector)
2-wire	4-20mA	9-32Vdc	+ve Supply -ve Supply Ground	Pin 1 Pin 2 Pin 3
3-wire	0-10Vdc (non-ratiometric)	14-32 Vdc	+ve Supply -ve Supply +ve Output Ground	Pin 1 Pin 2 Pin 3 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