

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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Intrinsically Safe, Semi-Flush Mount Pressure Transmitter



Approvals:-ATEX / IECEx



- Piezo-resistive sensor, Ceramic or Silicon
- Accuracy <±0.25% FS BFSL
- Pressure ranges from 100mbar to 100 bar
- Pressure reference, Gauge or Absolute

The intrinsically safe, semi-flush mount pressure transmitter, IPSSAT, 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 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.



Performance

Accuracy (Non-Linearity & Hysteresis) Setting Errors (offsets) <±0.25% / FS (BFSL) Zero & Full Scale, <±0.5% / FS

Material Specifications	
Housing	316 Stainless Steel
"0" ring seals	Viton
Diaphragm	316L Stainless Steel or Ceramic
Media wetted parts	Housing & process connection, "O" ring seal, diaphragm
Miscellaneous	
Weight	Approx 100g
Installation position	Any, small zero shift when tilted through 90°
	for silicon
Operational Life	> 100 x 10 ⁶ cycles
Insulation resistance	> 50M0hms at 50Vdc

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ISO9001certified

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)			
Environment & Thermal Effects				
Ambient Temperature Range	-20°C to +75°C			
Storage temperature	-40°C to +80°C			
Compensated temperature	+20°C to +80°C			
Thermal Zero Shift (TZS)	<±0.04% /FS/°C			
Thermal Span Shift (TSS)	<-0.015% /°C			
Permissible environment	Zone 0			

www.cynergy3.com

IPSSAT 2017





IPSSAT series

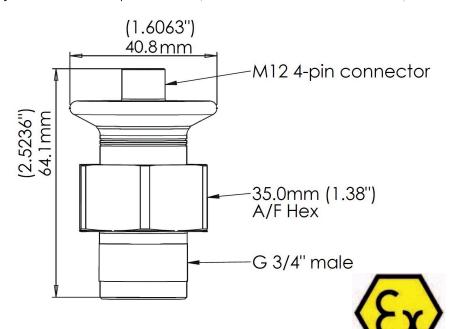
Intrinsically Safe, Semi-Flush Mount Pressure Transmitter

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 Signa	al and Supply Voltage		Wiring Designation	
Wire system	Output	Supply Volts	Connection	Pin No.
2-wire	4-20mA	10-28Vdc	+ve Supply	Pin 1
			-ve Supply	Pin 2
			Ground	Pin 3

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



ISO9001certified www.cynergy3.com