IPSSAT series



Intrinsically Safe, Semi-Flush Mount Pressure Transmitter



Approvals:-ATEX / IECEx ⓒ II 1G Ex ia IIC T4 Ga (Ta -see schedule)



- 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 piezoresistive 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.

Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE *Telephone +44 (0) 1202 897969 Email:sales@cynergy3.com*

IPSSAT 2017



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	$>100 ext{ x } 10^{6} ext{ cycles}$
Insulation resistance	> 50MOhms 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)
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

IS09001certified

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IPSSAT series



Intrinsically Safe, Semi-Flush Mount Pressure Transmitter

Identical pressure: Gauge, Austrilia Bar Permissible Permissible Overpressure Bar Bar - - - - - - - - 1 - - - - - - 2 - - - - - 5 - - - - - - 10 - - - - - 2 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -<	Input Pressure Ranges										
Nominal pressure*, Assolute minial pressure*, Compound Bar Bar - - 1 2 5 10 20 - - Permissible Overpressure Bar 2 2 5 5 10 20 50 100 200 * Ceranic sensor only Permissible Overpressure Writing Segma dubut Supply Voltage Writing Designation Writing Designation Pin No. 2-wire 4-20mA 10-28Vic +vve Supply Pin 3 Pin 1 Part No Sensor type (PSAT-G000-55 Silicon Silicon 0-1000mbar G (0-14.5psi) Pin 3 IPSSAT-G000-55 Silicon (PSAT-G000-55 Ceramic 0-2 Bar G (0-25psi) Pin 3 IPSSAT-G000-5C Ceramic 0-2 Bar G (0-25psi) Pin 5 IPSSAT-G000-5C Ceramic 0-2 Bar G (0-25psi) Pin 5 IPSSAT-G000-5C Ceramic 0-2 Dar G (0-25psi) Pin 5 IPSSAT-G000-5C Ceramic 0-10 Bar G (14.5 to +14.5psi) PisSAT-G000-5C IPSSAT-G000-5C Ceramic 0-10 Bar G (14.5 to +13.5psi) PisSAT-G000-5C IPSSAT-G000-5C Ceramic 0-10 Bar Abs (0-14.5psi) PisSAT-G000-5C Pin 40		Bar	0.1	0.5	1	2	5	10	20	50	100
Mominal pressure*. Compound Permissible Overpressure Bar -1 to +1 -1 to +3 -1 to +19 -1 to +19 * Ceramic sensor only Urining Designation Output Signat and Supply Voltage Viring Designation Pin No. 2-wire 4-20mA 10-28Vdc +ve Supply Pin 2 Ground Pin 2 Fin 1 2-wire 4-20mA 10-28Vdc +ve Supply Pin 2 Ground Pin 2 Fin 1 2-wire 4-20mA 10-28Vdc +ve Supply Pin 2 Ground Pin 3 IPSSAT-G000-5S Silicon 0-100mbar G (0-1.4psi) Pin 3 IPSSAT-G000-5S Silicon 0-500mbar G (0-7.2psi) Pin 3 IPSSAT-G000-5C Ceramic 0-100Bar G (0-7.2psi) Pin 5 IPSSAT-G000-5C Ceramic 0-10 Bar G (0-7.2psi) Pin 5 IPSSAT-G000-5C Ceramic 0-10 Bar G (1-4.5 to + 14.5 psi) PipSSAT-G000-5C IPSSAT-G000-5C Ceramic 0-10 Bar G (1-4.5 to + 14.5 psi) PipSSAT-G000-5C Ceramic 1-to + 9 Bar G (-14.5 to + 14.5 psi) PipSSAT-G000-5C Ceramic 1-to + 9 Bar G (-14.5 to + 134.5 psi) PipSSAT-A000-5C Ceramic 0-10 Bar Abs (0-134.5 poiA) PipSSAT-A000-5C Ce										_	_
Permissible Overpressure Bar 2 2 5 10 20 50 100 200 * Caramic sensor only Miring Designation Owner System Output Connection Pin No. 2: wire 4: 20mA 10: 28Vdc +ve Supply Pin 2 wire System Output Direct System Start G0100: 55 Silicon 0: 500mbar G (0: 14, 5psi) IPSSAT-G1000: 55 Silicon 0: 500mbar G (0: 14, 5psi) Pin 3 IPSSAT-G2000: 5C Ceramic 0: 28 ar G (0: 24 ppsi) Pin 3 IPSSAT-G2000: 5C Ceramic 0: 20 Bar G (0: 14, 5psi) PisSAT-G300: 5C Ceramic 0: 20 Bar G (0: 14, 5psi) PisSAT-G300: 5C Ceramic 0: 20 Bar G (0: 14, 5psi) PisSAT-G300: 5C Ceramic 0: 20 Bar G (0: 14, 5psi) PisSAT-G300: 5C Ceramic 0: 20 Bar G (0: 14, 5psi) PisSAT-G300: 5C Ceramic 0: 20 Bar G (0: 14, 5psi) PisSAT-G300: 5C Ceramic 0: 20 Bar G (0: 14, 5psi) PisSAT-G300: 5C Ceramic 0: 100 Bar G (1: 4, 5psi) PisSAT-G300: 5C Ceramic 0: 100 Bar G (1: 4, 5psi) PisSAT-G300: 5C Ceramic 0: 10 B			-1 to +1	-1 to +5	-1 to+9						
* Caranic sensor only <u>Wire system Output Signal and Supply Voltage Unresolution View Supply Pin 1</u> -2-wire 4-20mA 10-28Vdc +ve Supply Pin 3 <u>Prist A - Columbor Sistilicon 0 - 100mbar G (0 - 1.4.psi)</u> <u>IPSSAT - Gotoo-55 Silicon 0 - 500mbar G (0 - 1.4.psi)</u> <u>IPSSAT - Gotoo-55 Silicon 0 - 500mbar G (0 - 1.4.psi)</u> <u>IPSSAT - Gotoo-55 Silicon 0 - 500mbar G (0 - 1.4.psi)</u> <u>IPSSAT - Gotoo-55 Silicon 0 - 500mbar G (0 - 1.4.psi)</u> <u>IPSSAT - Gotoo-55 Silicon 0 - 500mbar G (0 - 1.4.psi)</u> <u>IPSSAT - Gotoo-55 Silicon 0 - 500mbar G (0 - 1.4.psi)</u> <u>IPSSAT - Gotoo-55 Silicon 0 - 500mbar G (0 - 1.4.psi)</u> <u>IPSSAT - Gotoo-55 Silicon 0 - 500mbar G (0 - 1.4.spsi)</u> <u>IPSSAT - Gotoo-55 Silicon 0 - 500mbar G (0 - 1.4.spsi)</u> <u>IPSSAT - Gotoo-55 C Ceramic 0 - 20 Bar G (0 - 23psi)</u> <u>IPSSAT - Gotoo-55 C Ceramic 0 - 100 Bar G (0 - 1.4.spsi)</u> <u>IPSSAT - Gotoo-55 C Ceramic 0 - 100 Bar G (1.4.5 to + 14.spsi)</u> <u>IPSSAT - Gotoo-55 C Ceramic 1 to + 18 Bar G (- 1.4.5 to + 14.spsi)</u> <u>IPSSAT - Gotoo-55 C Ceramic 0 - 100 Bar G (0 - 1.4.5 to + 14.spsi)</u> <u>IPSSAT - Gotoo-55 C Ceramic 1 to + 19 Bar G (- 1.4.5 to + 13.spsi)</u> <u>IPSSAT - Gotoo-55 C Ceramic 0 - 100 Bar G (0 - 1.4.5 to + 1.4.spsi)</u> <u>IPSSAT - Gotoo-55 C Ceramic 0 - 100 Bar G (- 1.4.5 to + 1.4.spsi)</u> <u>IPSSAT - Gotoo-55 C Ceramic 0 - 100 Bar G (- 1.4.5 to + 1.4.spsi)</u> <u>IPSSAT - A1000 - 55 C Ceramic 0 - 10 Bar Abs (0 - 1.4.5 to + 1.5 to + 2.75psi)</u> <u>IPSSAT - A1000 - 55 C Ceramic 0 - 10 Bar Abs (0 - 1.4.5 psi)A</u> <u>IPSSAT - A1000 - 55 C Ceramic 0 - 10 Bar Abs (0 - 1.4.5 psi)A</u> <u>IPSSAT - A1000 - 55 C Ceramic 0 - 10 Bar Abs (0 - 1.4.5 psi)A</u> <u>IPSSAT - A1000 - 55 C Ceramic 0 - 10 Bar Abs (0 - 1.4.5 psi)A</u> <u>IPSSAT - A1000 - 55 C Ceramic 0 - 10 Bar Abs (0 - 1.4.5 psi)A</u> <u>IPSSAT - A1000 - 55 C Ceramic 0 - 10 Bar Abs (0 - 1.4.5 psi)A</u> <u>IPSSAT - A1000 - 55 C Ceramic 0 - 10 Bar Abs (0 - 1.4.5 psi)A</u> <u>IPSSAT - A1000 - 55 C Ceramic 0 - 10 Bar Abs (0 - 1.4.5 psi)A</u> <u>IPSSAT - A1000 - 55 C Ceramic 0 - 10 Bar Abs (0 - 1.4.5 psi)A</u> <u>IPSSAT - A00 - 50 Ceramic 0 - 10 Bar Abs (0 - 1.4.5 psi)A</u>							10	20	50	100	200
Output Supply Voltage Wire gystem Output Supply Voltage 2-wire 4-20mA 10-28Vdc +ve Supply Pin 1 -ve Supply Pin 2 Ground Pin 3 IPSSAT-G0100-55 Silicon 0-100mbar G (0-1.4psi) IPSSAT-G1000-55 Silicon 0-100mbar G (0-1.4psi) IPSSAT-G2000-5C Ceramic 0-2 Bar G (0-72psi) IPSSAT-G1000-5C Ceramic 0-2 Bar G (0-73psi) IPSSAT-G1002-5C Ceramic 0-20 Bar G (0-23psi) IPSSAT-G1002-5C Ceramic 0-20 Bar G (0-23psi) IPSSAT-G1002-5C Ceramic 0-20 Bar G (0-23psi) IPSSAT-G1002-5C Ceramic 0-20 Bar G (0-72psi) IPSSAT-G1002-5C Ceramic 0-20 Bar G (0-72psi) IPSSAT-G1002-5C Ceramic 0-20 Bar G (0-72psi) IPSSAT-G1002-5C Ceramic 0-20 Bar G (0-23psi) IPSSAT-G1002-5C Ceramic 0-20 Bar G (0-74psi) IPSSAT-G1002-5C Ceramic 1-to +5 Bar G (-14.5 to +31psi) IPSSAT-G001P-5C Ceramic 1-to +9 Bar G (-14.5 to +31psi)	· · · · · · · · · · · · · · · · · · ·										
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-SS Silicon 0.100mbar G (0-1.4psi) IPSSAT-G0200-SC Ceramic 0-2 Bar G (0-29psi) IPSSAT-G2000-SC Ceramic 0-100 mbar G (0-14.5psi) IPSSAT-G2002-SC Ceramic 0-10 Bar G (0-145psi) IPSSAT-G2002-SC Ceramic 0-10 Bar G (0-145psi) IPSSAT-G2002-SC Ceramic 0-10 Bar G (1450psi) IPSSAT-G1002-SC Ceramic 0-10 Bar G (1450psi) IPSSAT-G1002-SC Ceramic 0-10 Bar G (1450psi) IPSSAT-G002-SC Ceramic 1 to +1 Bar G (-14.5 to +131psi) IPSSAT-G002-SC Ceramic 1 to +9 Bar G (-14.5 to +276psi) IPSSAT-G002-SC Ceramic 0-10 Bar Abs (0-133dspsiA) IPSSAT-A1002-SC Ceramic 0-10 Bar Abs (0-133dspsiA) IPSSAT-A1002-SC Ceramic 0-10 Bar Abs	* Ceramic sensor only										
Wire system OutputSupply VoltsConnectionPin No.2-wire4-20mA10-28Vdc+ve SupplyPin 1 -ve SupplyPart NoSensor typePressure Range[PSSAT-G0100-5SSilicon0-100mbar G (0-1.4psi)[PSSAT-60500-5SSilicon0-500mbar G (0-14.5psi)[PSSAT-6000-5CCeramic0-2 Bar G (0-29psi)[PSSAT-62000-5CCeramic0-2 Bar G (0-29psi)[PSSAT-62000-5CCeramic0-20 Bar G (0-29psi)[PSSAT-62000-5CCeramic0-10 Bar G (14.5psi)[PSSAT-62000-5CCeramic0-10 Bar G (14.5psi)[PSSAT-63000-5CCeramic0-10 Bar G (14.5psi)[PSSAT-63000-5CCeramic0-10 Bar G (14.5psi)[PSSAT-63000-5CCeramic1 to +1 Bar G (14.5 to +73psi)[PSSAT-6MIP1-5CCeramic-1 to +1 Bar G (-14.5 to +73psi)[PSSAT-6MIP1-5CCeramic-1 to +9 Bar G (-14.5 to +73psi)[PSSAT-6MIP9-5CCeramic-1 to +9 Bar G (-14.5 to +73psi)[PSSAT-A1000-5CCeramic0-1 Bar Abs (0-14.5 psiA)[PSSAT-A1000-5CCeramic0-1 Bar Abs (0-13.5psiA)[PSSAT-A1000-5CCeramic0-1 Bar Abs (0-13.5psiA)[PSSAT-A1000-5CCeramic0-1 Bar Abs (0-13.45psiA)[PSSAT-A1000-5CCeramic0-1 Bar Abs (0-13.45psiA)[PSSAT-A1000-5CCeramic0-1 Bar Abs (0-13.45psiA)[PSSAT-A1002-5CCeramic0-1 Bar Abs (0-13.45psiA)[PSSAT-A1002-5CCeramic0-1 Bar Abs (0-13.45psiA)[PSSAT-A1002-5CCeramic0	Output Signal and Supply Vo	ltage			Wiring Desig	nation					
$\frac{-\text{ve Suppy}}{\text{Ground}} = \frac{\text{Pin 3}}{\text{Pin 3}}$ $\frac{\text{Part No}}{\text{PSSAT-G0500-5S}} = \frac{\text{Pressure Range}}{\text{Silicon}} = \frac{100\text{mbar G} (0.14\text{psi})}{100\text{mbar G} (0.14\text{psi})}$ $\frac{\text{PSSAT-G0500-5S}}{10\text{PSSAT-G000-5S}} = \frac{100\text{mbar G} (0.14\text{psi})}{100\text{mbar G} (0.14\text{psi})}$ $\frac{100\text{PSSAT-G000-5C}}{10\text{PSSAT-G000-5C}} = \frac{100\text{ ceramic}}{2000\text{ ceramic}} = 0.2 \text{ Bar G} (0.73\text{psi})}$ $\frac{100\text{PSSAT-G000-5C}}{100\text{PSSAT-G000-5C}} = \frac{100\text{ ceramic}}{100\text{ ceramic}} = 0.20 \text{ Bar G} (0.73\text{psi})}$ $\frac{100\text{PSSAT-G000-5C}}{100\text{ ceramic}} = 0.50 \text{ Bar G} (0.73\text{psi})}$ $\frac{100\text{PSSAT-G000-5C}}{100\text{ SaT-G000-5C}} = \frac{100\text{ ceramic}}{100\text{ ceramic}} = 0.20 \text{ Bar G} (1.45 \text{ to } + 14.5\text{psi})}$ $\frac{100\text{PSSAT-G000-5C}}{100\text{ PSSAT-G000-5C}} = \frac{100\text{ ceramic}}{100\text{ ceramic}} = 100\text{ ceramic} = 100\text{ ser} (14.5 \text{ to } + 14.5\text{psi})}$ $\frac{100\text{PSSAT-G000-5C}}{100\text{ SaT-G000-5C}} = \frac{100\text{ ceramic}}{100\text{ ser}} = 100\text{ ser} (14.5 \text{ to } + 131\text{psi})}$ $\frac{100\text{PSSAT-G000-5C}}{100\text{ SaT-C000-5C}} = \frac{100\text{ ceramic}}{100\text{ ser}} = 100\text{ ser} (14.5 \text{ to } + 131\text{psi})}$ $\frac{100\text{PSSAT-A1000-5C}}{100\text{ SaT-A5}} = \frac{100\text{ ceramic}}{100\text{ ser}} = 100\text{ ser} (14.5 \text{ to } + 131\text{psi})}$ $\frac{100\text{PSSAT-A1000-5C}}{100\text{ ser}} = \frac{100\text{ ceramic}}{100\text{ ser}} = 100\text{ ser} = 100\text{ ser} (14.5 \text{ to } + 131\text{psi})}$ $\frac{100\text{PSSAT-A1000-5C}}{100\text{ ser}} = \frac{100\text{ ceramic}}{100\text{ ser}} = 100\text{ ser} = 10$	Wire system Output	S	upply Volts				Pin I	No.			
Ground Pin 3 Part No Sensor type 100mbar G (0-1.4psi) IPSSAT-G0500-5S Silicon 0-500mbar G (0-7.25psi) IPSSAT-G0500-5C Ceramic 0-2 Bar G (0-29psi) IPSSAT-G5000-5C Ceramic 0-2 Bar G (0-29psi) IPSSAT-G5000-5C Ceramic 0-20 Bar G (0-29psi) IPSSAT-G5000-5C Ceramic 0-20 Bar G (0-29psi) IPSSAT-G5002-5C Ceramic 0-20 Bar G (0-29psi) IPSSAT-G5002-5C Ceramic 0-100 Bar G (1450psi) IPSSAT-G5002-5C Ceramic 1-0 to H Bar G (14.5 to +14.5psi) IPSSAT-GM1P5-5C Ceramic 1-1 to +1 Bar G (-14.5 to +130psi) IPSSAT-GM1P5-5C Ceramic 1-1 to +9 Bar G (-14.5 to +130psi) IPSSAT-A000-5C Ceramic 0-10 Bar Abs (0-14.5psiA) IPSSAT-A1000-5C Ceramic 0-5 Bar Abs (0-73psiA) IPSSAT-A1000-5C Ceramic 0-5 Bar Abs (0-1345psiA) IPSSAT-A1000-5C Ceramic 0-5 Bar Abs (0-1345psiA) IPSSAT-A1000-5C Ceramic 0-10 Bar Abs (0-1345psiA) IPSSAT-A1000-5C Ceramic 0-10 Bar Abs (0-1345psiA) IPSSAT-A1000-5C Cerami	2-wire 4-20mA	1	0-28Vdc		+ve Supply		Pin	1			
Part NoSensor typePressure Range(PSSAT-G0100-55Silicon0-100mbar G (0-1.4psi)(PSSAT-G000-55Silicon0-1000mbar G (0-14.5psi)(PSSAT-G000-55Ceramic0-2 Bar G (0-29psi)(PSSAT-G5000-5CCeramic0-50 Bar G (0-73psi)(PSSAT-G5002-5CCeramic0-20 Bar G (0-29psi)(PSSAT-G5002-5CCeramic0-100 Bar G (0-145psi)(PSSAT-G5002-5CCeramic0-100 Bar G (0-145psi)(PSSAT-G5002-5CCeramic0-100 Bar G (0-145psi)(PSSAT-G5002-5CCeramic0-100 Bar G (145psi)(PSSAT-GM1P3-5CCeramic-1 to +1 Bar G (-14.5 to +135psi)(PSSAT-GM1P3-5CCeramic-1 to +9 Bar G (-14.5 to +135psi)(PSSAT-GM1P3-5CCeramic-1 to +9 Bar G (-14.5 to +276psi)(PSSAT-C072-5CCeramic0-2 Bar Abs (0-29psiA)(PSSAT-A1000-5CCeramic0-2 Bar Abs (0-29psiA)(PSSAT-A5000-5CCeramic0-2 Bar Abs (0-29psiA)(PSSAT-A5000-5CCeramic0-2 Bar Abs (0-29psiA)(PSSAT-A5000-5CCeramic0-10 Bar Abs (0-1345psiA)(PSSAT-A5000-5CCeramic0-10 Bar Abs (0-1345psiA) <t< td=""><td></td><td colspan="2">-0 -0.40</td><td></td><td colspan="3"></td><td>2</td><td></td><td></td><td></td></t<>		-0 -0.40						2			
$ \begin{array}{c} \label{eq:product} PSSAT-G0100-SS \\ PSSAT-G0500-SS \\ Silicon \\ PSSAT-G1000-SS \\ PSSAT-G1000-SC \\ Ceramic \\ 0-2 Bar G (0-22psi) \\ PSSAT-G5000-SC \\ Ceramic \\ 0-2 Bar G (0-23psi) \\ PSSAT-G1002-SC \\ Ceramic \\ 0-20 Bar G (0-23psi) \\ PSSAT-G1002-SC \\ Ceramic \\ 0-20 Bar G (0-220psi) \\ PSSAT-G002-SC \\ Ceramic \\ 0-20 Bar G (0-220psi) \\ PSSAT-G0102-SC \\ Ceramic \\ 0-10 Bar G (0-45psi) \\ PSSAT-G0102-SC \\ Ceramic \\ 0-10 Bar G (0-45psi) \\ PSSAT-G011PJ-SC \\ Ceramic \\ 0-10 Bar G (1450psi) \\ PSSAT-G011PJ-SC \\ Ceramic \\ 1-10 +9 Bar G (-14.5 to +14.5psi) \\ PSSAT-G011PJ-SC \\ Ceramic \\ 1-10 +9 Bar G (-14.5 to +13psi) \\ PSSAT-G012-SC \\ PSSAT-G012-SC \\ PSSAT-G012-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ PSSAT-A2000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A2000-SC \\ PSSAT-A2000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ 1-10 +9 Bar G (-14.5 to +$					Ground		Pin	3			
$ \begin{array}{c} \label{eq:product} PSSAT-G0100-SS \\ PSSAT-G0500-SS \\ Silicon \\ PSSAT-G1000-SS \\ PSSAT-G1000-SC \\ Ceramic \\ 0-2 Bar G (0-22psi) \\ PSSAT-G5000-SC \\ Ceramic \\ 0-2 Bar G (0-23psi) \\ PSSAT-G1002-SC \\ Ceramic \\ 0-20 Bar G (0-23psi) \\ PSSAT-G1002-SC \\ Ceramic \\ 0-20 Bar G (0-220psi) \\ PSSAT-G002-SC \\ Ceramic \\ 0-20 Bar G (0-220psi) \\ PSSAT-G0102-SC \\ Ceramic \\ 0-10 Bar G (0-45psi) \\ PSSAT-G0102-SC \\ Ceramic \\ 0-10 Bar G (0-45psi) \\ PSSAT-G011PJ-SC \\ Ceramic \\ 0-10 Bar G (1450psi) \\ PSSAT-G011PJ-SC \\ Ceramic \\ 1-10 +9 Bar G (-14.5 to +14.5psi) \\ PSSAT-G011PJ-SC \\ Ceramic \\ 1-10 +9 Bar G (-14.5 to +13psi) \\ PSSAT-G012-SC \\ PSSAT-G012-SC \\ PSSAT-G012-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ PSSAT-A2000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A2000-SC \\ PSSAT-A2000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC \\ 1-10 +9 Bar G (-14.5 to +276psi) \\ 1-10 +9 Bar G (-14.5 to +$		Part No		Sensor type		Pressure F	Range				
$\frac{iPSSAT-G0500-55}{iPSSAT-G000-5C} Silicon 0-500mbar G (0-7.25psi) 0-55AT-G000-5C (ceramic 0-2 Bar G (0-29psi) 0-55AT-G002-5C (ceramic 0-50 Bar G (0-73psi) 0-55AT-G002-5C (ceramic 0-20 Bar G (0-290psi) 0-55AT-G002-5C (ceramic 0-20 Bar G (0-25psi) 0-55Bar G (0-725psi) 0-55AT-G102-5C (ceramic 0-100 Bar G (1-4505) 0-55Bar G (0-725psi) 0-55AT-G102-5C (ceramic 0-100 Bar G (1-4505) 0-55Bar G (0-725psi) 0-55AT-G102-5C (ceramic 0-100 Bar G (1-4.5 to +73psi) 0-55AT-G102-5C (ceramic 0-100 Bar G (1-4.5 to +73psi) 0-55AT-G102-5C (ceramic -1 to +9 Bar G (-14.5 to +73psi) 0-55AT-G102-5C (ceramic 0-1 Bar Abs (0-14.5 to +73psi) 0-55AT-G102-5C (ceramic 0-1 Bar Abs (0-29psiA) 0-55Bar Abo (0-29psiA) 0-55Bar Abs (0-29psiA) 0-55Bar Abs (0-29psiA) 0-55Bar Abs (0-73psiA) 0-55Bar Abs (0-73psiA) 0-55Bar Abs (0-73psiA) 0-55Bar Abs (0-1345psiA) 0-55Bar Abs (0-73psiA) 0-55$											
$\frac{ PSSAT-G1000-SS }{ PSSAT-G2000-SC } Ceramic 0-2 Bar G (0-29psi) \\ PSSAT-G5000-SC Ceramic 0-10 Bar G (0-145psi) \\ PSSAT-G1002-SC Ceramic 0-10 Bar G (0-145psi) \\ PSSAT-G1002-SC Ceramic 0-20 Bar G (0-29psi) \\ PSSAT-G1003-SC Ceramic 0-100 Bar G (1-45 to +14.5psi) \\ PSSAT-G1003-SC Ceramic -1 to +1 Bar G (-14.5 to +13.5psi) \\ PSSAT-G1072-SC Ceramic -1 to +9 Bar G (-14.5 to +13.5psi) \\ PSSAT-G1072-SC Ceramic -1 to +9 Bar G (-14.5 to +13.5psi) \\ PSSAT-1000-SC Ceramic -1 to +9 Bar G (-14.5 to +276psi) \\ PSSAT-C0072-SC Ceramic -1 to +9 Bar G (-14.5 to +276psi) \\ PSSAT-A1000-SC Ceramic -0-1 Bar Abs (0-13.5psiA) \\ PSSAT-A5000-SC Ceramic -0-2 Bar Abs (0-29psiA) \\ PSSAT-A5000-SC Ceramic -0-10 Bar Abs (0-1345psiA) \\ PSSAT-A1002-SC Ceramic -0-10 Bar Abs (0-1345psiA) \\ PSSAT-A102-SC Cer$											
$\frac{ PSSAT-G2000-SC}{ PSSAT-G5000-SC} Ceramic 0-2 Bar G (0-29psi) PSSAT-G5000-SC Ceramic 0-5 Bar G (0-73psi) PSSAT-G1002-SC Ceramic 0-20 Bar G (0-290psi) PSSAT-G5002-SC Ceramic 0-20 Bar G (0-25psi) PSSAT-GM1P1-SC Ceramic 0-100 Bar G (1450psi) PSSAT-GM1P1-SC Ceramic -1 to +1 Bar G (-14.5 to +13.5 to +13.$						-					
$\frac{ PSSAT-G3002-5C}{ PSSAT-G3002-5C} Ceramic} 0-5 Bar G (0-73psi)$ $\frac{ PSSAT-G3002-5C}{ PSSAT-G5002-5C} Ceramic 0-20 Bar G (0-230psi)$ $\frac{ PSSAT-G5002-5C}{ PSSAT-GM1P1-5C} Ceramic 0-50 Bar G (0-725psi)$ $\frac{ PSSAT-GM1P5-5C}{ PSSAT-GM1P5-5C} Ceramic -1 to +1 Bar G (-14.5 to +14.5psi)$ $\frac{ PSSAT-GM1P5-5C}{ PSSAT-GM1P5-5C} Ceramic -1 to +9 Bar G (-14.5 to +135psi)$ $\frac{ PSSAT-GM1P5-5C}{ PSSAT-C0072-5C} Ceramic -1 to +19 Bar G (-14.5 to +276psi)$ $\frac{ PSSAT-C0072-5C}{ PSSAT-A3000-5C} Ceramic -1 to +19 Bar G (-14.5 to +276psi)$ $\frac{ PSSAT-A3000-5C}{ PSSAT-A3000-5C} Ceramic -1 to +19 Bar G (-14.5 to +276psi)$ $\frac{ PSSAT-A3000-5C}{ PSSAT-A3000-5C} Ceramic -2 Bar Abs (0-1345psiA)$ $\frac{ PSSAT-A3000-5C}{ PSSAT-A1002-5C} Ceramic -0-5 Bar Abs (0-1345psiA)$ $\frac{ PSSAT-A1002-5C}{ PSSAT-A1002-5C} Ceramic -0-10 Bar Abs (0-1345psiA)$ $\frac{(1.6063'')}{40.8 mm} + M12 4-pin connector$ $\frac{(1.6063'')}{ A/F Hex } + M12 4-pin connector$							4.3p3i/				
$\frac{ PSSAT-G1002-5C}{ PSSAT-G2002-5C} Ceramic 0-10 Bar G (0-145psi) \\ PSSAT-G2002-5C} Ceramic 0-20 Bar G (0-725psi) \\ PSSAT-G1003-5C} Ceramic 0-100 Bar G (1450psi) \\ PSSAT-GM1P1-SC} Ceramic -1 to +1 Bar G (-14.5 to +14.5psi) \\ PSSAT-GM1P9-SC} Ceramic -1 to +9 Bar G (-14.5 to +131psi) \\ PSSAT-GM1P9-SC} Ceramic -1 to +19 Bar G (-14.5 to +276psi) \\ PSSAT-C0072-5C} Ceramic 0-1 Bar Abs (0-14.5psiA) \\ PSSAT-A1000-5C} Ceramic 0-2 Bar Abs (0-29psiA) \\ PSSAT-A1002-5C} Ceramic 0-10 Bar Abs (0-1345psiA) \\ PSSAT-A1002-5C} Ceramic 0-2 Bar Abs (0-1345psiA) \\ PSSAT-A1002-5C} Ceramic 0-35 An Abs (0-1345psiA) \\ PSSAT-A1002-5C} Ceramic 0-10 Bar Abs (0-1345psiA) \\ PSSAT-A1002-5C} Ceramic 0-2 Bar Abs (0-335.0mm (1.38'') \\ A/F Hex \\ G 3/4'' mcle \\ PSSAT-A1002-5C PSTAT A PS$											
$\frac{ PSSAT-G2002-5C}{ PSSAT-G5002-5C} Ceramic 0-20 Bar G (0-290psi) \\ PSSAT-G5003-5C} Ceramic 0-500 Bar G (0-725psi) \\ PSSAT-GM1P1-5C} Ceramic -1 to -1 Bar G (-14.5 to +14.5psi) \\ PSSAT-GM1P5-5C} Ceramic -1 to +5 Bar G (-14.5 to +73psi) \\ PSSAT-G072-5C} Ceramic -1 to +9 Bar G (-14.5 to +73psi) \\ PSSAT-0072-5C} Ceramic -1 to +9 Bar G (-14.5 to +73psi) \\ PSSAT-A1000-5C} Ceramic -1 to +19 Bar G (-14.5 to +73psi) \\ PSSAT-A2000-5C} Ceramic 0-1 Bar Abs (0-29psiA) \\ PSSAT-A2000-5C} Ceramic 0-5 Bar Abs (0-29psiA) \\ PSSAT-A1000-5C} Ceramic 0-5 Bar Abs (0-73psiA) \\ PSSAT-A1002-5C} Ceramic 0-1 D Bar Abs (0-1345psiA) \\ PSSAT-A1002-5C} PAC Abs (0-1345psiA) \\ PSSAT-A102-5C} PAC Abs (0-1345$							si				
$\frac{ PSSAT-G5002-5C}{ PSSAT-G1003-5C} = \frac{O-50 \text{ Bar G} (0-725 \text{ psi})}{(1-200 \text{ Psi} - (1-200 \text{ par G} (1430 \text{ psi}))}$ $\frac{ PSSAT-GM1P1-5C}{ PSSAT-GM1P5-5C} = \frac{1}{(1-1 \text{ to } + 3 \text{ Bar G} (-14.5 \text{ to } + 73 \text{ psi})}{(1-200 \text{ to } + 10 \text{ to } + 3 \text{ Bar G} (-14.5 \text{ to } + 73 \text{ psi}))}$ $\frac{ PSSAT-GM1P9-5C}{ PSSAT-C0072-5C} = \frac{1}{(1-1 \text{ to } + 9 \text{ Bar G} (-14.5 \text{ to } + 73 \text{ psi})}{(1-200 \text{ to } + 10 \text{ to } + 9 \text{ Bar G} (-14.5 \text{ to } + 73 \text{ psi}))}$ $\frac{ PSSAT-A1000-5C}{ PSSAT-A1000-5C} = \frac{1}{(1-10 \text{ to } + 19 \text{ Bar G} (-14.5 \text{ to } + 726 \text{ psi})}{(1-200 \text{ sar Abs} (0-14.5 \text{ psi}))}$ $\frac{ PSSAT-A2000-5C}{ PSSAT-A2000-5C} = \frac{O-10 \text{ Bar Abs} (0-29 \text{ psi})}{(0-13 \text{ Bar Abs} (0-1345 \text{ psi}))}$ $\frac{ PSSAT-A1002-5C}{ PSSAT-A1002-5C} = \frac{O-10 \text{ Bar Abs} (0-1345 \text{ psi})}{(0-10 \text{ Bar Abs} (0-1345 \text{ psi}))}$ $\frac{(1.6063'')}{40.8 \text{ mm}} + \frac{M12}{4-\text{pin connector}}$ $\frac{(1.6063'')}{A/F \text{ Hex}} + \frac{M12}{4-\text{pin connector}}$					· ·						
$\frac{ PSSAT-G1003-5C}{ PSSAT-GM1P1-5C} \xrightarrow{(Ceramic)}{(Ceramic)} -1 to +1 Bar G (-14.5 to +14.5psi)} \\ PSSAT-GM1P9-5C (Ceramic) -1 to +9 Bar G (-14.5 to +73psi)} \\ PSSAT-GM1P9-5C (Ceramic) -1 to +9 Bar G (-14.5 to +276psi)} \\ PSSAT-G0072-5C (Ceramic) -1 to +19 Bar G (-14.5 to +276psi)} \\ PSSAT-A1000-5C (Ceramic) -1 to +19 Bar G (-29psiA) \\ PSSAT-A2000-5C (Ceramic) -2 Bar Abs (0-29psiA) \\ PSSAT-A5000-5C (Ceramic) -5 Bar Abs (0-73psiA) \\ PSSAT-A1002-5C (Ceramic) -0 -10 Bar Abs (0-1345psiA) \\ PSSAT-A1002-5C (Ceramic) -1 0 Bar Abs (0-1345psiA) \\ PSSAT-A102-5C (Ceramic) -1 0 Bar Abs (0-1345p$											
$\frac{ PSSAT-GM1P1-5C}{ PSSAT-GM1P9-5C} \xrightarrow{(Ceramic)}{(Ceramic)} + 1 to +5 Bar G (-14.5 to +73psi)} PSSAT-GM1P9-5C (Ceramic) + 1 to +9 Bar G (-14.5 to +131psi)} PSSAT-C0072-5C (Ceramic) + 1 to +19 Bar G (-14.5 to +276psi)} PSSAT-A1000-5C (Ceramic) + 1 to +19 Bar G (-14.5 to +276psi)} PSSAT-A2000-5C (Ceramic) + 1 to +19 Bar G (-14.5 to +276psi)} PSSAT-A2000-5C (Ceramic) + 1 to +19 Bar G (-14.5 to +276psi)} PSSAT-A2000-5C (Ceramic) + 1 to +19 Bar G (-14.5 to +276psi)} PSSAT-A2000-5C (Ceramic) + 1 to +19 Bar G (-14.5 to +276psi)} PSSAT-A2000-5C (Ceramic) + 1 to +19 Bar G (-14.5 to +276psi)} PSSAT-A2000-5C (Ceramic) + 1 to +19 Bar G (-14.5 to +276psi)} PSSAT-A1002-5C (Ceramic) + 1 to +19 Bar G (-14.5 to +276psi) PSSAT-A1002-5C (Ceramic) + 1 to +19 Bar G (-14.5 to +276psi) PSSAT-A1002-5C (Ceramic) + 1 to +19 Bar G (-14.5 to +276psi) PSSAT-A1002-5C (Ceramic) + 1 to +19 Bar G (-14.5 to +276psi) PSSAT-A1002-5C (Ceramic) + 0 + 2 Bar Abs (0-73psiA) PSSAT-A1002-5C (Ceramic) + 0 + 2 Bar Abs (0-73psiA) PSSAT-A1002-5C (Ceramic) + 0 + 2 Bar Abs (0-1345psiA) PSSAT-A1002-5C (Ceramic) + 0 + 2 Bar Abs (0-1345psiA) PSSAT-A1002-5C (Ceramic) + 0 + 0 + 2 Bar Abs (0-1345psiA) PSSAT-A1002-5C (Ceramic) + 0 + 0 + 2 Bar Abs (0-1345psiA) PSSAT-A1002-5C (Ceramic) + 0 + 0 + 2 Bar Abs (0-1345psiA) PSSAT-A1002-5C (Ceramic) + 0 + 0 + 2 Bar Abs (0-1345psiA) PSSAT-A1002-5C (Ceramic) + 0 + 0 + 2 Bar Abs (0-1345psiA) PSSAT-A1002-5C (Ceramic) + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + $											
$\frac{ PSSAT-GM1P5-5C}{ PSSAT-GM1P9-5C} \frac{-1 \text{ to } +5 \text{ Bar } G (-14.5 \text{ to } +73 \text{ psi})}{(1.4.5 \text{ to } +13 \text{ 1psi})}$ $\frac{ PSSAT-GM1P9-5C}{ PSSAT-A1000-5C} \frac{-1 \text{ to } +9 \text{ Bar } G (-14.5 \text{ to } +276 \text{ psi})}{(1.4.5 \text{ to } +276 \text{ psi})}$ $\frac{ PSSAT-A1000-5C}{ PSSAT-A2000-5C} \frac{-1 \text{ to } +19 \text{ Bar } G (-14.5 \text{ to } +276 \text{ psi})}{(1.28 \text{ so } -29 \text{ psi} \text{ A})}$ $\frac{ PSSAT-A2000-5C}{ PSSAT-A1002-5C} \frac{-2 \text{ caramic}}{ Ceramic} \frac{-2 \text{ Bar } \text{ Abs } (0.29 \text{ psi} \text{ A})}{(1.6063'')}$ $\frac{(1.6063'')}{40.8 \text{ mm}}$ $\frac{(1.6063'')}{ PSSAT-A1002-5C} \frac{-35.0 \text{ mm} (1.38'')}{ A/F Hex }$								1.5psi)			
$\frac{ PSSAT-GM1P9-5C}{ PSSAT-C0072-5C} (2eramic -1 to +9 Bar G (-14.5 to +131psi)) PSSAT-A1000-5C}{ Ceramic 0-1 Bar Abs (0-14.5 to +276psi) PSSAT-A2000-5C} (2eramic 0-2 Bar Abs (0-29psiA)) PSSAT-A5000-5C}{ Ceramic 0-5 Bar Abs (0-73psiA) PSSAT-A1002-5C} (2eramic 0-10 Bar Abs (0-1345psiA)) PSSAT-A1002-5C}{ Ceramic 0-10 Bar Abs (0-1345psiA) PSSAT-A1002-5C} (1.6063'') PSSAT-A1002-5C} (1.605'') PSSAT-A1002-5C} $											
$\frac{ PSSAT-C0072-5C}{ PSSAT-A1000-5C} \begin{array}{c} \text{Ceramic} & -1 \text{ to } +19 \text{ Bar } \text{G} (-14.5 \text{ to } +276\text{psi}) \\ PSSAT-A1000-5C} \begin{array}{c} \text{Ceramic} & 0-1 \text{ Bar } \text{Abs } (0-14.5\text{psiA}) \\ PSSAT-A5000-5C} \begin{array}{c} \text{Ceramic} & 0-2 \text{ Bar } \text{Abs } (0-29\text{psiA}) \\ PSSAT-A1002-5C} \begin{array}{c} \text{Ceramic} & 0-5 \text{ Bar } \text{Abs } (0-1345\text{psiA}) \\ PSSAT-A1002-5C} \begin{array}{c} \text{Ceramic} & 0-10 \text{ Bar } \text{Abs } (0-1345\text{psiA}) \\ PSSAT-A1002-5C} \begin{array}{c} \text{Ceramic} & 0-10 \text{ Bar } \text{Abs } (0-1345\text{psiA}) \\ \end{array} \right)$											
$\frac{1PSSAT-A1000-5C}{1PSSAT-A2000-5C} Ceramic 0-1 Bar Abs (0-14.5psiA) (0-29psiA) (0-2 Bar Abs (0-29psiA) (0-5 Bar Abs (0-73psiA)) (0-5 Bar Abs (0-73psiA)) (0-10 Bar Abs (0-1345psiA)) (0-10 Bar Abs $											
IPSSAT-A2000-5C Ceramic 0-2 Bar Abs (0-29psiA) IPSSAT-A1002-5C Ceramic 0-5 Bar Abs (0-73psiA) IPSSAT-A1002-5C Ceramic 0-10 Bar Abs (0-1345psiA) (1.6063'') 40.8 mm 40.8 mm M12 4-pin connector SC: 79 40.8 mm A/F Hex A/F Hex								., ebei,			
$\frac{1PSSAT-A5000-5C}{1PSSAT-A1002-5C} \xrightarrow{\text{Ceramic}} 0-5 \text{ Bar Abs (0-73psiA)} \\ 0-10 \text{ Bar Abs (0-1345psiA)} \\ (1.6063'') \\ 40.8 \text{ mm} \\ 40.8 \text{ mm} \\ M12 \text{ 4-pin connector} \\ G 35.0 \text{ mm} (1.38'') \\ A/F \text{ Hex} \\ G 3/4'' \text{ male} \\ (1.6063'') \\ A/F \text{ Hex} \\ (1.6063'') \\ A/F \text{ Hex} \\ (1.6063'') \\ A/F \text{ Hex} \\ (1.6063'') $											
$\frac{1PSSAT-A1002-5C Ceramic}{0.10 \text{ Bar Abs}(0.1345psiA)}$ $(1.6063'')$ 40.8 mm $M12 \text{ 4-pin connector}$ $\frac{1000}{1000}$ $\frac{1000}{10$	IPSSAT-A5000-5C C										
(1.6063'') 40.8mm M12 4-pin connector (9825'') (1.6063'') M12 4-pin connector (1.38'') A/F Hex G 3/4'' male											
		(2.5236") 64.1mm				35.0mm A/F Hex	n (1.38			ĪĒĈĒ	×

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