## **IPSAT Series**

## Intrinsically Safe Pressure Transducer





*Approvals*:-ATEX / IECEx

**WII 1G Ex ia IIC T4 Ga (Ta -see schedule)** 



- Piezo-resistive thick film ceramic sensor
- Stainless steel body
- Accuracy <±0.25% FS BFSL</p>
- Pressure ranges from -1 to 400 bar

The IPSAT series is ideally suited for use in a wide range of industrial applications in hazardous areas. The probe uses a piezo-resistive ceramic sensor, giving excellent media compatibility within a stainless steel housing

The electronics incorporate a microprocessor based amplifier, requiring no adjusting and giving stable electronics, especially industrial applications.

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



<b>Electrical Protection</b>		Performance				
Supply reverse polarity	No damage but also no function	Accuracy (Non-Linearity & Hysto				
Electromagnetic compatibility	CE Compliant	Setting Errors (offsets)	Zero & Full Scale, $<\pm0.5\%$ / FS			
Mechanical Stability		Material Specifications				
Shock	100g / 11s	Housing	316 Stainless Steel			
Vibration	10g RMS (20 - 2000Hz)	"O" ring seals	Viton			
<b>Environment &amp; Thermal Effects</b>		Diaphragm	Ceramic Al <sub>2</sub> O <sub>3</sub> 96%			
Ambient Temperature Range	-20°C to +75°C	. •	Housing & connection, "O" ring seal,			
Storage temperature	-20°C to +80°C	·	diaphragm			
Compensated temperature range	+20°C to +80°C		pprox 100g			
Thermal Zero Shift (TZS)	<±0.04% /FS/°C	Installation position	Any			
Thermal Span Shift	<±0.015% /°C	Operational Life	$> 100 \times 10^6$ cycles			
Permissible environment Zone 0		•	> 50M0hms at 50Vdc			

Pressure Ranges										
Nominal Pressure, Gauge,	bar	1	2	5	10	20	50	100	250	400
Compound range	bar	-1 to 0	-1 to 2	-1 to 5	-1 to 9	-1 to 19	-1 to 24			
Permissible Overpressure	bar	2	4	10	20	40	100	200	400	650
Burst Pressure	bar	4	5	12	25	50	120	250	500	650

<b>Output Signal an</b>	d Supply Voltage				
Wire system	Output	Supply Voltage	Connection Pin Nos		
2-wire	4-20mA	10-28Vdc	+ve Supply Pin 1	-ve Supply Pin 2	Ground Earth Pin

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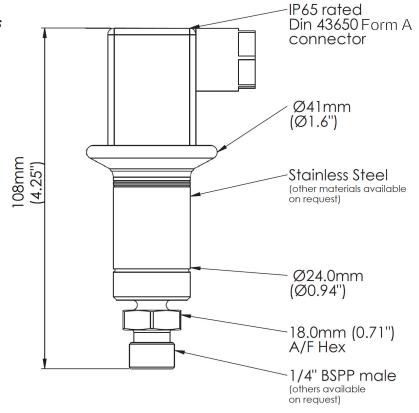
## **IPSAT Series**





Part Number	Pressure Rating
IPSAT-G1000-5	0 - 1 Bar G
IPSAT-G6000-5	0 - 6 Bar G
IPSAT-GM1P9-5	-1 to +9 Bar G
IPSAT-G1002-5	0 - 10 Bar G
IPSAT-G1602-5	0 - 16 bar G
IPSAT-C0184-5	-1 to +24 Bar G
IPSAT-G2502-5	0 - 25 Bar G
IPSAT-G4002-5	0 - 40 Bar G
IPSAT-G1003-5	0 - 100 Bar G
IPSAT-G2503-5	0 - 250 Bar G
IPSAT-G4003-5	0 - 400 Bar G

## **Mechanical Dimensions**



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ISO9001 CERTIFIED







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