IPSUAT Series

Intrinsically Safe Pressure Transducer



- Piezo-resistive thick film ceramic sensor
- Stainless steel body
- Accuracy <±0.25% FS BFSL</p>
- Pressure ranges from vacuum to 5800psi

The IPSUAT 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 certificate.



Baseefa 15ATEX0224x ECEX BAS 15.0153x	
a(Ta = see schedule)	
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Electrical Protection		Performance			
Supply reverse polarity	No damage but also no function			<±0.25% / FS (BFSL)	
Electromagnetic compatibility	CE Compliant	Setting Errors (offsets)		Zero & Full Scale, $<\pm0.5\%$ / FS	
Mechanical Stability		Material Specifications			
Shock	100g / 11s	Housing	316 Stai	nless Steel	
Vibration	10g RMS (20 - 2000Hz)	"O" ring seals	Viton		
Environment & Thermal Effects		Diaphragm	Ceramic	Al ₂ O ₃ 96%	
Operating Temperature	-20°C to +120°C		Housing & connection, "O" ring seal,		
Storage temperature	-40°C to +110°C		diaphrag	_	
Compensated temperature range	+20°C to +80°C		Approx 1		
Thermal Zero Shift (TZS)	<±0.04% /FS/°C		Any		
Thermal Span Shift	<±0.015% /°C	•	,	10 ⁶ cycles	
Permissible environment zone 0	-20°C to +60°C	•		hms at 50Vdc	
	with patm 0.8 to 1.1 bar	modiation roototumoo	2 0011101	mile at oot as	

Pressure Ranges										
Nominal Pressure, Gauge,	psi	15	30	75	150	300	750	1500	3750	6000
Compound range	psi	-15 to 0	-15 to 30	-15 to 75	-15 to 12	35 -15 to	285 -15 to	o 360		
Permissible Overpressure	psi	30	60	150	300	600	1500	3000	6000	9750
Burst Pressure	psi	60	75	180	375	750	1800	3750	7500	9750

Output Signal and	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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IPSUAT 2016

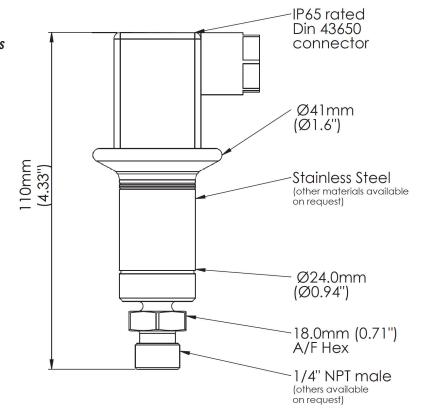
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Part Number	Pressure Rating
IPSUAT-GP015-5	0-15psi G
IPSUAT-GP030-5	0-30psi G
IPSUAT-GP075-5	0-75psi G
IPSUAT-C0446-5	-14.5 to +150 psi G
IPSUAT-GP100-5	0-100psi G
IPSUAT-GP150-5	0-150psi G
IPSUAT-C0447-5	-14.5 to +350 psi G
IPSUAT-GP300-5	0-300psi G
IPSUAT-GP750-5	0-750psi G
IPSUAT-GP1K5-5	0-1500psi G
IPSUAT-GP3K6-5	0-3600psi G
IPSUAT-GP5K8-5	0-5800psi G

Mechanical Dimensions



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