



EXPLOSION-PROOF Pressure Transducer with Display AST46DS

Overview

AST46DS explosion proof pressure transducer features the latest advances in transducer technology. With a power supply as low as an 8VDC and low current consumption, the AST46DS can operate in remote areas with minimal power. The re-zeroing function, allows for field calibration in a safe environment to further enhance well site or system readings. Pressure ranges are available up to 20,000 PSI; these explosion-proof pressure transducers and transmitters are designed for all common oil and gas pressures.

Benefits

- Explosion Proof: Class I & II Division 1 / 2 Groups A, B, C, D, E, F, G
- Class III Division 1 & 2
- ATEX and IECEx Ex d IIC
- ANSI/ISA 12.27.01-2003 Single Seal Approved
- ABS (American Bureau of Shipping) Approved
- Display Units: PSI | Bar | kpa | Mpa | kg/cm2 | in WC | Volts | mA

Applications

- SCADA systems
- Wellhead systems
- Compressor systems and stations
- Pipeline instrumentation
- Power generation equipment
- Offshore platforms
- Oil & gas pressure monitoring
- Test systems

Performance @ 25°C (77°F)

Error Tolerance	< ±0.25% BFSL
Stability (1 year)	±0.25% FS, typical
Over range Protection	2X Rated Pressure
Burst Pressure	5X Rated Pressure or 45,000 PSI, whichever is less
Pressure Cycles	> 100 Million

Environmental Data

Temperature

Operating	-40 to 85°C (-40 to 185°F)						
Display Operating	-30 to 80°C (-22 to 176°F)						
Storage	-55 to 105°C (-67 to 221°F)						
0-100% relative humidity, non-condensing							

Thermal Limits

Compensated Range	0 to 55°C (30 to 130°F)
TC Zero	<±1.0% of FS
TC Span	<±1.0% of FS
Other	
Shock	100G, 11 msec, 1/2 sine
Vibration	10G peak, 20 to 2000 Hz.
EMI/RFI Protection:	Yes
Enclosure Rating:	Suitable for Outdoors; Type 4X Rated
Pollution Degree	2 (interior of enclosure)
Measurement (Installation) Category	I
Altitude	2000m

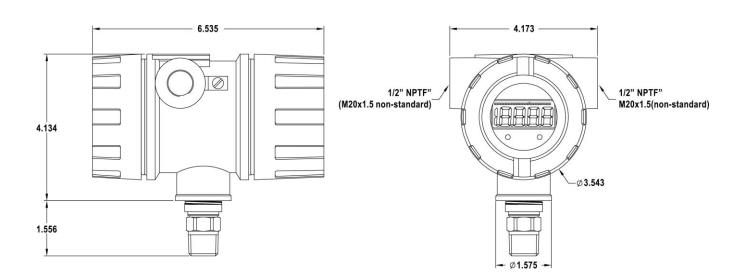
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Electrical Data

Output	4-20mA	1-5VDC
Excitation	8-28VDC	8-28VDC
Output Impedance	>10k Ohms	<100 Ohms, Nominal
Current Consumption:	25mA, typical	2mA, typical
Bandwidth	(-3dB): DC to 1kHz	(-3dB): DC to 1kHz
Output Noise:	-	<2mV RMS
Zero Offset:	<± 0.5% of FS	<± 0.5% of FS
Span Tolerance:	<± 1.0% of FS	<± 1.0% of FS
Output Load:	0-800 Ohms@8-28VDC	5k Ohms, Min.
Reverse Polarity Protection	Yes	Yes

Dimensions



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Ordering Information

AST46DS)	G	0500		Р	3	2	1	000	-Z
Series Type																
A= 1/4 I= 1/4" P= 1/2	ess Connect "NPT Male (up to NPT Female (up "NPT Male (up to 50C Female Auto	10,000 to 15,00 15,000	00 PŚI)) PSI)													
Pressure Range G= Gauge Pressure* V= Gauge Pressure (Va 0= Sealed Gauge up to 9,999 PSI 1= Sealed Gauge up 10 2= Sealed Gauge 20,000 PSI																
Inser	rt Pressure C	ode														
t	0-1	Pressure Code	G G	0001	_	-14.7 to 25 -14.7 to 30 -14.7 to 50 0-25	Pressure Code Vented	V V V G	0025 0030 0050 0025							
Measurement	0-5		G	0005	ement	0-20 0-50 0-100 0-200		G	0020							
PSIG Me	0-7.5+		G	0208	à Measurement	0-500		0	0500							
	0-15		G	0015	PSIG	0-3000 0-5,000 0-7,500		0 0 0	3000 5000 7500							
						0-10,000 0-15,000 0-20,000	-	1 1 2	0000 5000 0000							
B= Bar	5	P= F	PSI	H= Inches H₂O												
Outp 3= 1-5	V 4= 4-20m/	A (2 wir	e loop j	powered)												
Elect 2= Ter	t rical minal Blocks (1/2'	' FNPT	Condui	t Connections - s	tandard)	1										
Wett 0= 17-						718 and Hastelloy loy C276**	C276)									
Optio 000= N	DNS lo Options															
-Z= Ad		egistere	d to AN	ISI/ASME B31.3.	Contact	factory for materia	al, pres	ssure, and pro	cess connection	options.						

*Not suitable for Class II; Sensing element corrects for barometric pressure through base sensor assembly. **NACE MR0175/ISO 15156 compatible material

联系方式



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