AST4600 Factory Sealed Pressure Transducer Explosionproof CSA Approved For Hazardous Locations

Overview

AST4600 Explosionproof Pressure Transducer / Transmitter is approved to CSA 30 (UL1203 / FM3615) Class 1 Div 1 and Zone 1 Group IIC Explosionproof - Groups A, B, C, D for use in Hazardous Areas Constructed with a simple, yet rugged design, the factory-sealed AST4600 stands up to a variety of Explosionproof applications where price and performance are critical.

Benefits

- ANSI/ISA 12.27.01.2003 Compliant "Single Seal" (No need for expensive secondary seal)
- All Stainless Steel Construction
- No Oil, Welds or Internal O-rings
- Wide Operating Temperature Range
- Ranges from 50 to 10,000 PSIS (Factory Leak Checked)
- Low Static and Thermal Errors
- Rugged Design Withstands Harsh Environments
- Wide Media Compatibility
- Suitable for High Shock and Vibration Applications

Applications

- Industrial OEM & Hydrogen Equipment (316L SS Wetted Material Available)
- Natural Gas Compressors
 Pipe Line Instrumentation
 - RefrigerationPressure Instrumentation
- Oil Platforms
- Well Head Pressure
- Power Generation
- Energy & Water Management

Performance @25°C (77°F)

Accuracy*	< ±0.25% BFSL
Stability (1 year)	±0.25%FS, typical
Over range Protection	2X Rated Pressure
Burst Pressure	5X or 25,000 psi (whichever is less)
Pressure Cycles	> 100 Million
* Accuracy includes non-linearity, hysteres	sis & non-repeatability

Electrical Data

Electrical Bata		
Output	4-20mA	1-5VDC, 1-6VDC
Excitation	10-28VDC	10-28VDC
Output Impedance	>10k Ohms	<100 Ohms, Nominal
Current Consumption	20mA, typical	<10mA
Bandwidth	(-3dB): DC to 250 Hz	(-3dB): DC to 1kHz
Output Noise	-	<2mV RMS
Zero Offset	$<\pm1\%$ of FS	$<\pm1\%$ of FS
Span Tolerance	$<\pm 2\%$ of FS	<±1.5% of FS
Output Load	0-800 Ohms@10-28VDC	5k Ohms, Min.
Reverse Polarity Protection	Yes	Yes

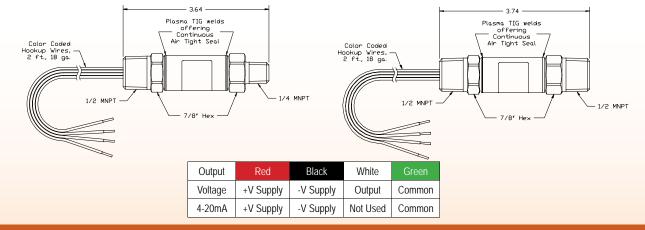


Environmental Data

Temperature	
Operating	-40 to 85°C (-40 to 185°F)
Storage	-40 to 100°C (-40 to 212°F)
Thermal Limits	
Compensated Range	0 to 55°C (30 to 130°F)
TC Zero	<±1.5% of FS
TC Span	<±1.5% of FS
Other	
Shock	100G, 11 msec, 1/2 sine
Vibration	10G peak, 20 to 2000 Hz.
EMI/RFI Protection	Yes
Rating	IP-66

Pressure in PSI, Sealed 0-50	Pressure Range Code 00050
Pressure in PSI, Sealed 0-50	Pressure Range Code
Pressure in PSI, Sealed 0-50	Pressure Range Code
in PSI, Sealed 0-50	Range Code
	00050
0 100	
0-100	00100
0-200	00200
	00500
0-1,000	01000
0-1500	01500
0-2,500	02500
0-3000	03000
0-5000	05000
0-7500	07500
0-10,000	10000
	0-500 0-1,000 0-1500 0-2,500 0-3000 0-5000 0-7500

Dimensional Data



Warranty

Workmanship - AST, Inc. pressure transmitters have a limited one-year warranty to the original purchaser. AST, Inc. will replace or repair, free of charge, any defective transmitter. This warranty does not apply to any units that have been modified; misused, neglected or installed where the application exceeds published ratings. AST's sensors are made with pride in New Jersey, USA. If in the area please feel free to stop by for a visit!

Installation/Applications - The purchaser is responsible for media compatibility, functional adequacy, and correct installation of the transmitter.

Use 000 for no options