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AST4310 Class 1 Div 2 Groups A, B, C, D Non-Incendive Media Isolated, Field Adjustable Pressure Sensor

OVERVIEW

The AST4310 is a media isolated, field adjustable pressure transmitter suitable for use in hazardous areas. Protected by a Viton O-ring, this transmitter's two potentiometers have the ability to adjust the zero and span output signals up to ± 5% [of the full scale pressure]. Additionally, the AST4310 offers access points through the housing of the transmitter in order to simplify adjustments after installation. Complete with a wide range of threads, pressure ranges and output signals, the AST4310 is the solution for pressure measurement when adjust ability is necessary.

BENEFITS

- UL/cUL 1604 (CSA 213) Class 1 Div 2 Groups A, B, C, D
- High Strength Stainless Steel Construction
- No Oil, Welds or Internal O-rings
- Wide Operating Temperature Range
- Ranges from Vacuum to 10,000 PSI
- Low Static and Thermal Errors
- Unparalleled Price and Performance
- Compatible with Wide Range of Liquids and Gases
- EMI/RFI Protection

APPLICATIONS

- Refrigeration
- Water Management
- Industrial OEM Equipment
- Oil & Gas Platforms
- Pressure Instrumentation
- Process Control
- Gas Compression & Storage □ Test Stands
- Oxygen Delivery Systems
- Hydrogen Fuel (316L)

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



Performance @25°C (77°F)		
Accuracy*	< ±0.25% BFSL	
Stability (1 year)	±0.25%FS, typ	
Over range Protection	2X Rated Pressure	
Burst Pressure	5X or 20,000 psi (whichever is less)	
Pressure Cycles	> 100 Million	
*Accuracy includes non-linearity, hysteresis & non-repeatability		

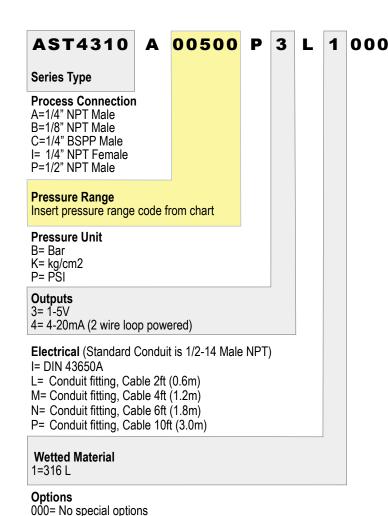
Environmental Data	
Temperature	
Operating	-40 to 85°C (-40 to 185°F)
Storage	-40 to 100°C (-40 to 212°F)
Thermal Limits	
Compensated Range	0 to 55°C (30 to 130°F)
TC Zero	<±1.5% of FS
TC Span	<±1.5% of FS
Other	
Shock	100G, 11 msec, 1/2 sine
Vibration	10G peak, 20 to 2000 Hz.
EMI/RFI Protection:	Yes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

American Sensor Technologies

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Ordering Information

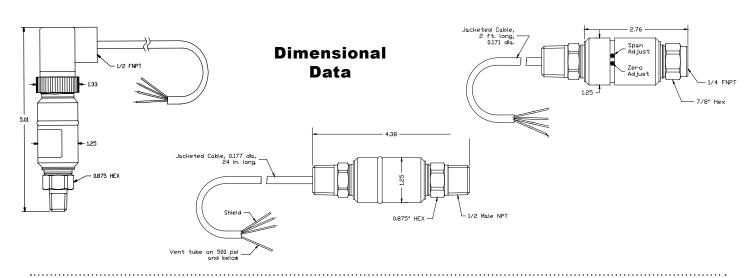


Pressure Ranges*

PSIG Measurement Range	Pressure Range Code
-14.7 to 30**	V0030**
0-25	00025
0-50	00050
0-100	00100
0-200	00200
0-250	00250
0-300	00300
0-500	00500
0-1,000	01000
0-1,500	01500
0-2,500	02500
0-3000	03000
0-5,000	05000
0-7,500	07500
0-10,000	10000

BARG Measurement Range	Pressure Range Code
-1 to 2**	V0002**
0-2	00002
0-5	00005
0-10	00010
0-20	00020
0-50	00050
0-100	00100
0-250	00250
0-350	00350
0-500	00500
0-700	00700

*Typical ranges. All ranges between 0-25 psi and 0-10,000 psi available. **Compound ranges up to -14.7 to 2500 psi available. Please consult factory.



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.

