



AST4400 Class 1 Div 1 IS Groups C, D with Approved Barrier RoHS

OVERVIEW

The AST4400 is a media isolated stainless steel pressure sensor with a wide variety of options. In addition to its rugged construction and best price-to-performance ratio in the industry, the AST4400 is the solution for pressure measurement in Intrinsically Safe areas.

BENEFITS

- High Strength Stainless Steel Construction
- No Oil, Welds or Internal O-rings
- Wide Operating Temperature Range
- Ranges up to 10,000 PSI
- Low Static and Thermal Errors
- Unparalleled Price and Performance
- Compatible with Wide Range of Liquids and Gases
- EMI/RFI Protection
- UL/cUL 913 (CSA 157) Class 1 Div 1 Groups C,D when installed with an approved barrier

APPLICATIONS

- Industrial OEM Equipment
- Water Management
- Pneumatics
- Hydrogen Storage (316L SS) ◆ Data Loggers
- ♦ HVAC/R Equipment
- Control Panels
- Hydraulic Systems

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				

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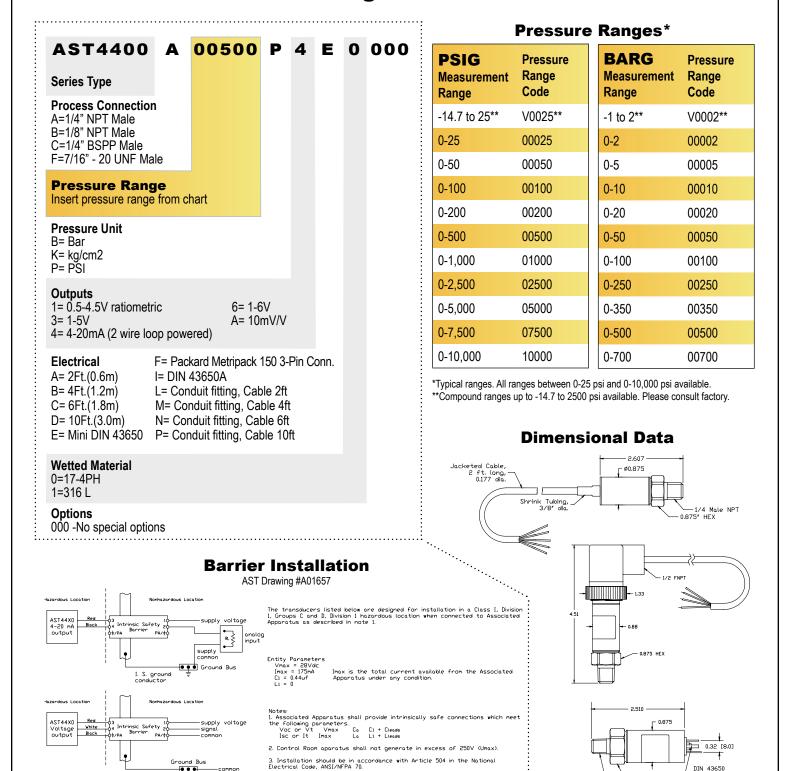
Environmental Data				
Temperature				
Operating	-40 to 85°C (-40 to 185°F)			
Storage	-40 to 100°C (-40 to 212°F)			
Thermal Limits				
Compensated Range	0 to 55°C (30 to 130°F)			
TC Zero	<±1.5% of FS			
TC Span	<±1.5% of FS			
Other				
Shock	100G, 11 msec, 1/2 sine			
Vibration	10G peak, 20 to 2000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

Electrical Data						
Output	4-20mA	1-5VDC, 1-6VDC	0-50mV	0.5-4.5V Ratiometric		
Excitation	10-28VDC	10-28VDC	5VDC,typ	5VDC,reg		
Output Impedance	>10k Ohms	<100 Ohms, Nominal	1100 Ohms, Nominal	<100 Ohms, Nominal		
Current Consumption:	20mA, typ.	<10mA	<5mA	<10mA		
Bandwidth	(-3dB): DC to 250 Hz	(-3dB): DC to 1kHz	(-3dB): DC to 5kHz, min	(-3dB): DC to 1kHz		
Output Noise:	-	<2mV RMS	-	<2mV RMS		
Zero Offset:	<±1% of FS	<±1% of FS	< ±2% of FS	<±1% of FS		
Span Tolerance:	<±2% of FS	<±1.5% of FS	< ±2% of FS	<±1.5% of FS		
Output Load:	0-800 Ohms@10-28VDC	10k Ohms, Min.	>1M Ohms	10K Ohms, Min.		
Reverse Polarity Protection	Yes	Yes	-	No		

American Sensor Technologies

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Ordering Information



Warranty

I. S. ground conductor

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.