



AST4000 Industrial Grade

Stainless Steel Media Isolated Pressure Sensor

OVERVIEW

Utilizing a one-piece stainless steel sensing element, the AST4000 covers a wide variety of applications that require rugged construction, high cycle life, as well as media compatibility to deliver outstanding and long-term performance. The AST4000 is offered with a variety of threads, pressure ranges, outputs and electrical connections in order to make system integration seamless.

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 508 Approved

APPLICATIONS

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

Performance @25°C (77°F)			
Accuracy*	< ±0.5% 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			

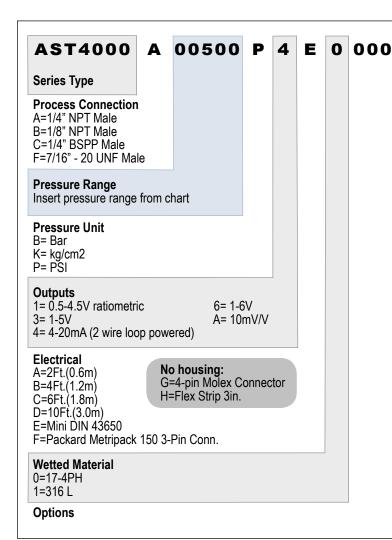


Environmental Data			
Temperature			
Operating	-40 to 85°C (-40 to 185°F)		
Storage	-40 to 100°C (-40 to 212°F)		
Thermal Limits			
Compensated Range	0 to 55°C (30 to 130°F)		
TC Zero	<±1.5% of FS		
TC Span	<±1.5% of FS		
Other			
Shock	100G, 11 msec, 1/2 sine		
Vibration	10G peak, 20 to 2000 Hz.		
EMI/RFI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

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

Ordering Information

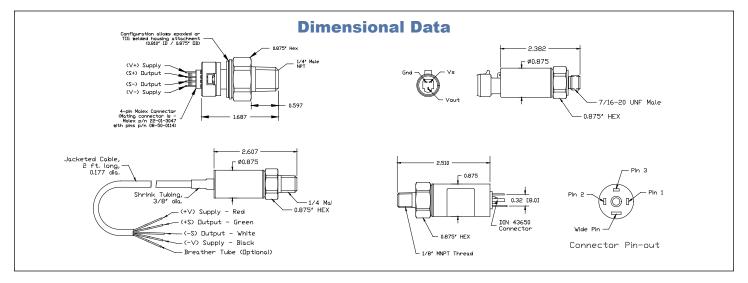


Pressure Ranges*

PSIG Measurement Range	Pressure Range Code		BARG Measurement Range	Pressure Range Code
-14.7 to 25**	V0025**		-1 to 2**	V0002**
0-25	00025		0-2	00002
0-50	00050		0-5	00005
0-100	00100		0-7	00007
0-150	00150		0-10	00010
0-200	00200		0-20	00020
0-250	00250		0-35	00035
0-500	00500		0-50	00050
0-1,000	01000		0-70	00070
0-2,500	02500		0-100	00100
0-5,000	05000		0-250	00250
0-7,500	07500		0-350	00350
0-10,000	10000		0-500	00500
*Typical ranges. All ranges between 0-25		5	0-700	00700

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.

Installation/Applications - The purchaser is responsible for media compatibility, functional adequacy, and correct installation of the transmitter. AST's sensors are made with pride in New Jersey, USA. If in the area please feel free to stop by for a visit!