OEM Pressure Sensors & Transducers



AST4000 > AST4100 > AST4200



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 (32 to 132°F)			
TC Zero	<±1.5% of FS			
TC Span	<±1.5% of FS			
Other				
Shock	EN 60068-2-27			
Vibration	EN 60068-2-6, 60068-2-64, and IEC 68-2-32			
EMI/RFI Protection:	Yes			
Rating:	IP-66 (housing only)			

- The AST4000 OEM pressure transducer / transmitter remains the most popular configuration. With its welded stainless steel housing and various electrical connections, the AST4000 can be packaged for virtually any OEM pressure transducer application. Voltage and current output signals are available and all products.
- The AST4100 is a compact, low cost pressure transducer with a cable electrical connection. Mainly used in benign environments, the AST4100 is an economical option for pressure sensing.
- The AST4200 series offers the same features as the AST4000, but uses a unique pressure port design that enables direct mounting to panels without the use of an adapter.

Benefits -

- High Strength Stainless Steel Construction
- No Oil, Welds or Internal O-rings
- Wide Operating Temperature
- Pressures up to 10,000 PSI
- Low Static and Thermal Errors
- Unparalleled Price and Performance
- Compatible with Wide Variety of Liquids and Gases
- EMI/RFI Protection
- UL/cUL 508 Approved (with housing)

Applications -

- Industrial OEM Equipment
- Water Management
- Pneumatics
- Hydrogen Storage
- Sub Sea Pressure
- HVAC/R Equipment
- Control Panels
- Hydraulic Systems
- Data Loggers

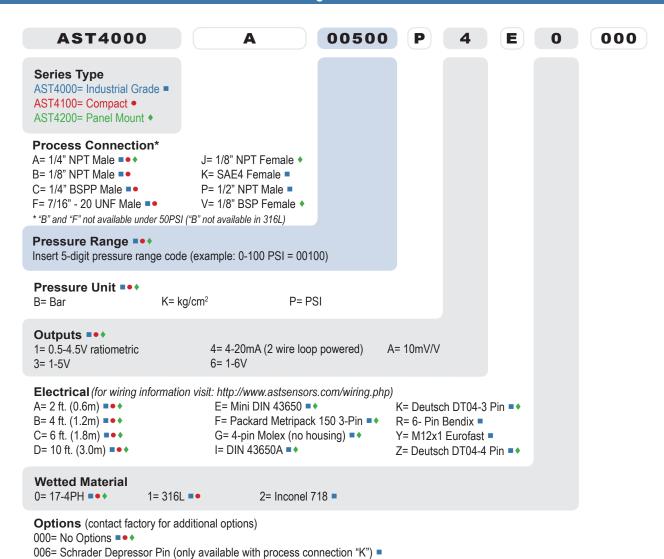
Performance @ 25°C (77°F)				
Accuracy*	< ±0.5% BFSL			
Stability (1 year)	±0.25% FS, typical			
Over Range Protection	2X Rated Pressure			
Burst Pressure	5X or 20,000 PSI (whichever is less)			
Pressure Cycles	> 100 Million			

^{*} Accuracy includes non-linearity, hysteresis & non-repeatability

Electrical Data					
Output	4-20mA	1-5VDC, 1-6VDC	0-50mV (10mV/V)	0.5-4.5V Ratiometric	
Excitation	10-28VDC	10-28VDC	5VDC, typical	5VDC, regulated	
Output Impedance	>10k Ohms	<100 Ohms, Nominal	1100 Ohms, Nominal	<100 Ohms, Nominal	
Current Consumption:	20mA, typical	<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:	<±1.5% 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	-	Yes	



Ordering Information



Pressure Ranges⁺

143= Schrader Depressor Pin & Sealed Gauge References (only available with process connection "K")

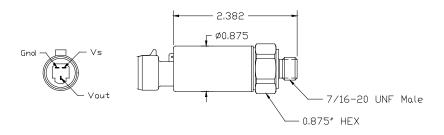
	-14.7 to 25**		V0025**
a	0-25		00025
ng	0-50	O	00050
Rai	0-100	8	00100
nt	0-150	ပ	00150
Measurement Range	0-200	Range Code	00200
<u> </u>	0-250	Ra	00250
ารเ	0-500		00500
Je;	0-1,000	ns	01000
<u>ح</u> ن	0-2,500	Pressure	02500
PSIG	0-5,000	<u>а</u>	05000
4	0-7,500		07500
	0-10,000		10000

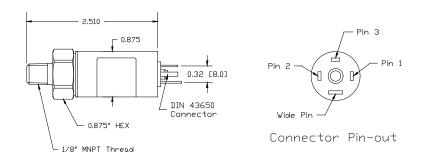
	-1 to 2**		V0002**
O	0-2		00002
u	0-5	O	00005
Ra	0-7	8	00007
int	0-10	0	00010
BARG Measurement Range	0-20	Range Code	00020
ure	0-35	Ra	00035
ası	0-50	Pressure	00050
Me	0-100	ns	00100
Ŋ	0-250	res	00250
ĀR	0-350	<u>Ф</u>	00350
Ф	0-500		00500
	0-700		00700

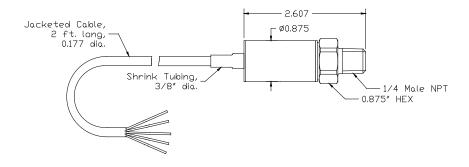
^{*}Typical ranges. All ranges between 0-25 PSI and 0-10,000 PSI available. **Compound ranges up to -14.7 to 500 PSI available. Please consult factory.

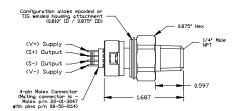


AST4000



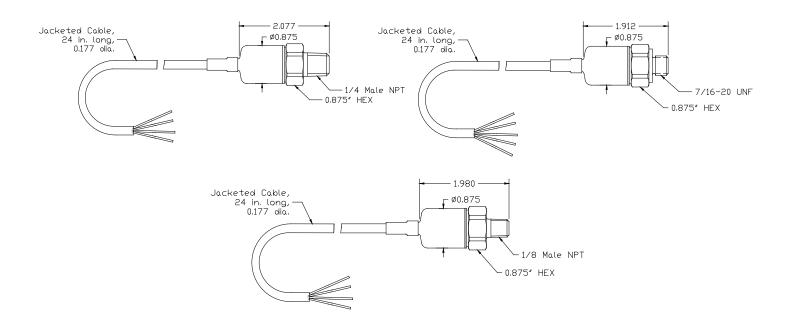




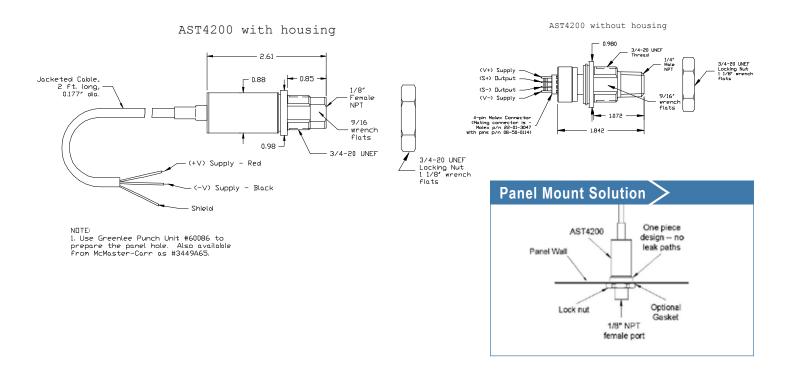




AST4100



AST4200



American Sensor Technologies · 450 Clark Dr., Mt. Olive, NJ 07828 · phone (973) 448-1901 · fax (973) 448-1905 · email: info@astsensors.com