

Industrial Pressure Transducer



AST2000



The AST2000 is an ASIC-compensated, high quality, stainless steel industrial pressure transducer designed for use in the measurement of liquids and gases. Intended for mid to high volume applications requiring excellent performance, the AST2000 succeeds by offering highly competitive pricing.

Benefits

- Fully Welded Stainless Steel Housing
- No Oil Fill, Welds, or Internal O-rings
- Wide Operating Temperature
- Compatible with Liquids and Gases
- Rugged, Compact Design
- Pressures up to 10,000 PSI
- High Shock and Vibration
- EMI/RFI Protection

Applications

- Industrial OEM Equipment
- Hydraulic Systems
- HVAC Equipment
- Refrigeration Equipment
- Automotive
- Energy / Water Management
- Test Stands
- Off-Road/Construction Equipment

Environmental Data

Temperature

Operating	-40 to 125°C (-40 to 250°F)
Storage	-40 to 125°C (-40 to 250°F)

Thermal Limits

Compensated Range	0 to 55°C (32 to 131°F)
TC Zero	<± 1.0% FS
TC Span	<± 1.0% FS

Other

Shock	100G, 11 msec, 1/2 sine
Vibration	20G peak, 20 to 2400 Hz.
EMI/RFI Protection:	Yes
Rating:	IP-66 (optional IP-67)

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 20,000 PSI (whichever is less)
Pressure Cycles	> 100 Million

* Accuracy includes non-linearity, hysteresis & non-repeatability

Electrical Data

Output	Voltage (.25-5V, 1-5V, 1-6V)	0.5-4.5V Ratiometric	4-20mA
Excitation	10-30VDC	5VDC	10-30VDC
Output Impedance	<100 Ohms, Nominal	<100 Ohms, Nominal	<10K Ohms
Current Consumption:	<10mA	<10mA	20mA, typ
Bandwidth	(-3dB): DC to 3KHZ	(3dB): DC to 3KHZ	(-3dB): DC to 250 Hz
Output Noise:	<2mV RMS	<2mV RMS	-
Zero Offset:	±0.5% of FS	±0.5% of FS	<±1% of FS
Span Tolerance:	±1.0% of FS	±1.0% of FS	<±1% of FS
Output Load:	10k Ohms, min	10K Ohms, min	0-800 Ohms@10-28VDC
Reverse Polarity Protection	Yes	Yes	Yes



Ordering Information*

AST2000
A
00500
P
1
E
0
000

Series Type

Process Connection**

A= 1/4" NPT Male F= 7/16" - 20 UNF Male
 B= 1/8" NPT Male K= SAE4 Female
 C= 1/4" BSPP Male

** "B" and "F" not available under 50PSI ("B" not available in 316L)

Pressure Range

Insert 5-digit pressure code

Pressure Unit

B= Bar K= kg/cm² P= PSI

Outputs

1= 0.5-4.5V ratiometric 3= 1-5V 4= 4-20mA 6= 1-6V

Electrical (for wiring information visit: <http://www.astensors.com/wiring.php>)

E= Mini DIN 43650C R= 6-Pin Bendix
 F= Packard Metripack 150 3-Pin Y= M12x1
 K= Deutsch DT04 3-Pin Z= Deutsch DT04 4-Pin

Wetted Material

0= 17-4PH 1= 316L

Options (contact factory for additional options)

000= No Options

*Minimum order quantities may apply to certain configurations, please contact factory for more information.

Pressure Ranges*

PSIG Measurement	-14.7 to 25**	Pressure Code	V0025**
	0-25		00025
	0-50		00050
	0-100		00100
	0-150		00150
	0-200		00200
	0-250		00250
	0-500		00500
	0-1,000		01000
	0-2,500		02500
	0-5,000		05000
	0-7,500		07500
	0-10,000		10000

BARG Measurement	-1 to 2**	Pressure Code	V0002**
	0-2		00002
	0-5		00005
	0-7		00007
	0-10		00010
	0-20		00020
	0-35		00035
	0-50		00050
	0-100		00100
	0-250		00250
	0-350		00350
	0-500		00500
	0-700		00700

*All pressures between 0-25 PSI and 0-10,000 PSI available. **Compound pressures up to -14.7 to 500 PSI available. Please consult factory.

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