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**
Excitation	10-30VDC	5VDC
Output Impedance	<100 Ohms, Nominal	<100 Ohms, Nominal
Current Consumption:	<10mA	<10mA
Bandwidth	(-3dB): DC to 3KHZ	(3dB): DC to 3KHZ
Output Noise:	<2mV RMS	<2mV RMS
Zero Offset:	±0.5% of FS	±0.5% of FS
Span Tolerance:	±1.0% of FS	±1.0% of FS
Output Load:	10k Ohms, min	10K Ohms, min
Reverse Polarity Protection	Yes	Yes

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Ordering Information*

AST2000	A	00500	P	1	E	0	000

Series Type

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

** "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/cm^2
P= PSI

Outputs
1= 0.5-4.5V ratiometric
3= 1-5V
6= 1-6V

Electrical *(for wiring information visit: http://www.astsensors.com/wiring.php)*
E= Mini DIN 43650C
F= Packard Metripack 150 3-Pin
K= Deutsch DT04 3-Pin
R= 6-Pin Bendix
Y= M12x1
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	Pressure Code
-14.7 to 25++	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

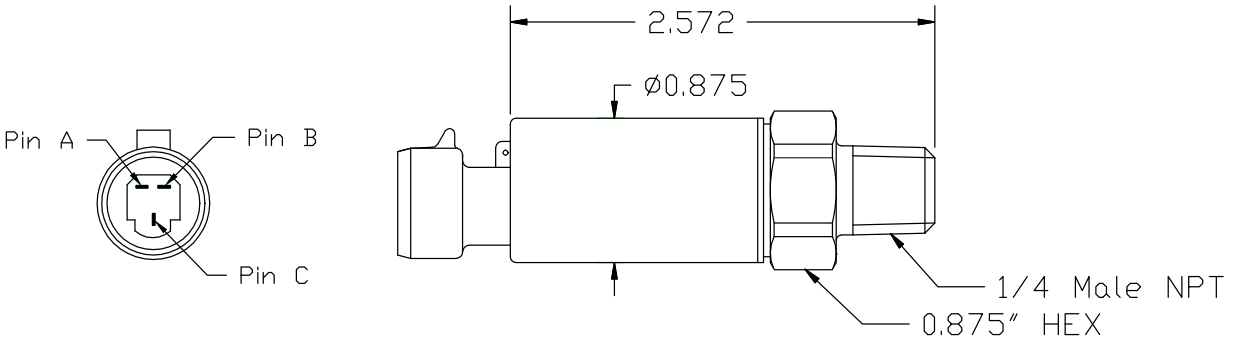
BARG Measurement	Pressure Code
-1 to 2++	V0002++
0-2	00002
0-5	00005
0-7	00007
0-10	00010
0-20	00020
0-35	00035
0-50	00050
0-100	00100
0-250	00250
0-350	00350
0-500	00500
0-700	00700

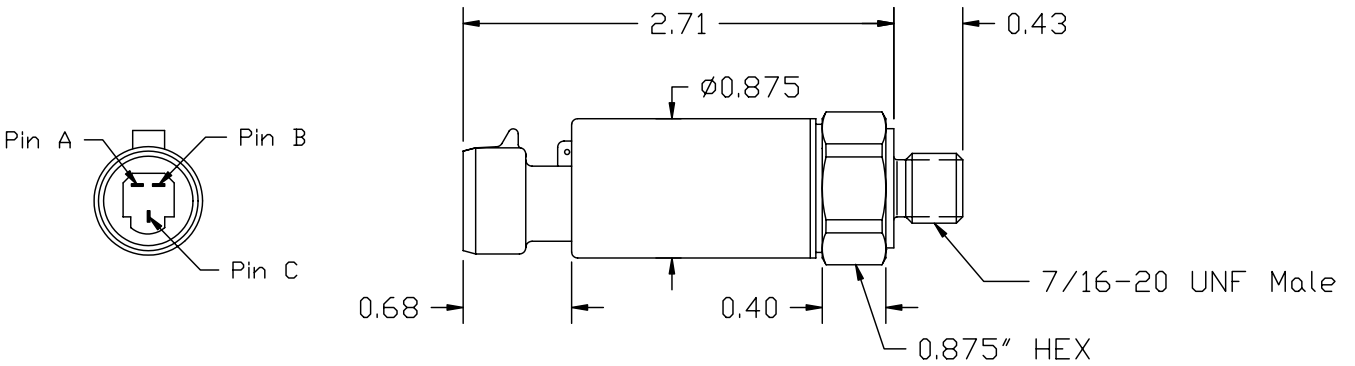
+All pressures between 0-25 PSI and 0-10,000 PSI available. ++Compound pressures up to -14.7 to 500 PSI available. Please consult factory.

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All specifications subject to change without notice.

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