



INDUSTRIAL OEM Pressure Transducer AST4000 Overview

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.

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, Minimum
Burst Pressure	5X or 20,000 PSI (whichever is less)
Pressure Cycles	>100 Million

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

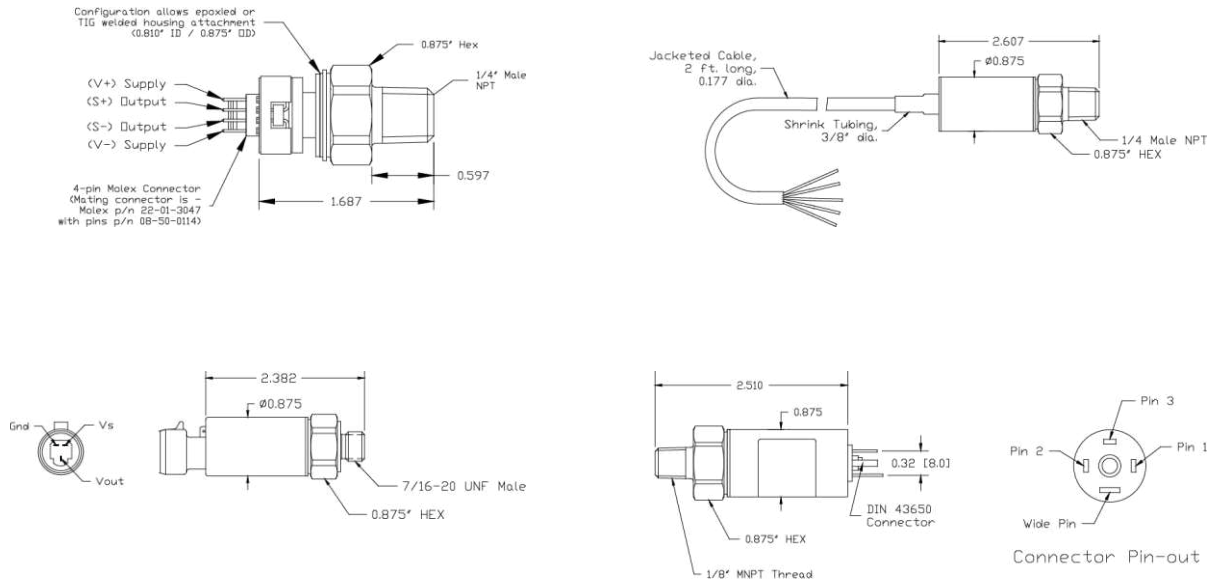
Other

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)

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

Dimensions



Ordering Information

AST4000	A	00500	P	4	E	0	000																						
Series Type																													
Process Connection																													
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Pressure Range																													
Insert 5-digit pressure range code (example: 0-100 PSI = 00100) Ranges between 0-25 PSI and 0-10,000 PSI available. Compound pressure up to -14.7 to 500 PSI.																													
Pressure Unit																													
B=Bar K=kg/cm2 P=PSI H=inH2O M=miliBar																													
Outputs																													
1= 0.5-4.5V ratiometric 3= 1-5V 4= 4-20mA (2 wire loop powered) 6= 1-6V																													
Electrical																													
A= 2 ft. (0.6m) B= 4 ft. (1.2m) C= 6 ft. (1.8m) D= 10 ft. (3.0m) E= Mini DIN 43650 F= Packard Metripack 150 3-Pin G= 4-pin Molex (no housing) I= DIN 43650A K= Deutsch DT04-3 Pin R= 6- Pin Bendix Y= M12x1 Eurofast Z= Deutsch DT04-4 Pin																													
Wetted Material																													
0= 17-4PH 1= 316L 2= Inconel 718																													

Options

(contact factory for additional options)
000= No Options
006= Schrader Depressor Pin (only available with process connection "K")
143= Schrader Depressor Pin & Sealed Gauge References (only available with process connection "K")

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