



PANEL MOUNT Pressure Sensor AST4200

Overview

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)

PANEL MOUNT

AST4200 Pressure Sensor

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)

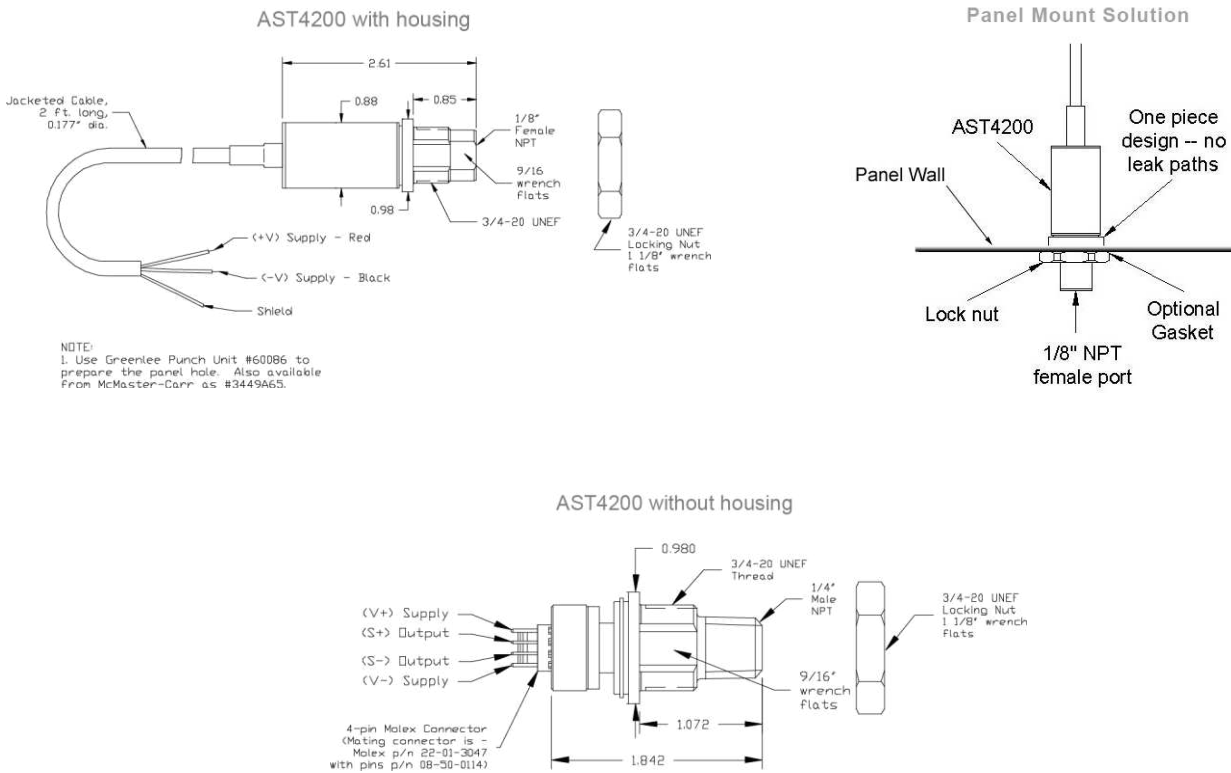
PANEL MOUNT

AST4200 Pressure Sensor

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

AST4200	J	00100	P	4	A	0	000
Series Type							
Process Connection A= 1/4" NPT Male J= 1/8" NPT Female V= 1/8" BSP Female							
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							
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 Z= Deutsch DT04-4 Pin							
Wetted Material 0= 17-4PH 1= 316L							
Options (contact factory for additional options) 000= No Options							

NORTH AMERICA

American Sensor Technologies, Inc. (AST),
a TE Connectivity company
450 Clark Drive
Mount Olive, NJ 07828 USA
Tel +1 973 448 1901
Fax +1 973 448 1905
info@astsensors.com

ASIA

Hong Kong Sensor Technologies (HKST),
a TE Connectivity company
Unit No. 2 on 24/F., Perfect Industrial
Building, No. 31 Tai Yau Street,
San Po Kong, Kln., Hong Kong
Tel 852 2242 5048
info@hkstsensors.com

TE.com/sensorsolutions

American Sensor Technologies, Inc., a TE Connectivity company.

American Sensor Technologies, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.

AST4200 10/01/15