

AST3200 *General Purpose*

LOW PRESSURE Industrial Pressure Sensor



Overview

The AST3200 Series is a pressure sensor intended for high volume OEM applications that require the low pressure measurement of non-corrosive liquids and gases. With a compact design, the AST3200 is ideal for upgrading pneumatic equipment with the benefits of a pressure transducer.

Benefits

- ♦ Low Static and Thermal Errors
- ♦ Wide Operating Temperature Range
- ♦ EMI/RFI Protection
- ♦ Pressure Ranges from 0-0.1 PSI to 0-150 PSI

Applications

- ♦ Pressure Instrumentation
- ♦ Water Level
- ♦ Pneumatics



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 750 PSI (whichever is less)
Pressure Cycles	> 10 Million

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

Environmental Data

Temperature

Operating	-40 to 85°C (-40 to 185°F)
Storage	-40 to 125°C (-40 to 212°F)

Thermal Limits

Compensated Range	-40 to 85°C (-40 to 185°F)
Total Error Band	+/-1% FS, from -10 to 60°C +/-2% FS, from -10 to -40°C, 60 to 85°C

Other

Shock	100G, 11 msec, 1/2 sine
Vibration	10G peak, 20 to 2000 Hz.
EMI/RFI Protection:	EN50082, part (Heavy Industrial)
Rating:	NEMA 4 or IP66

Electrical Data

Output	4-20mA	1-5V, 0-5V	0.5-4.5V ratiometric
Excitation	10-32 VDC	10-32 VDC	5 VDC regulated
Output Impedance	-	<100 (Ohms)	<100 (Ohms)
Current Consumption:	22mA, Max	<10 mA	<8 mA
Bandwidth	DC to 250 Hz	DC to 1kHz	DC to 1kHz (Voltage)
Output Noise:	<2mV RMS	<2mV RMS	<2mV RMS
Output Load:	0-800 Ohms@10-28VDC	10k Ohms, min	10k Ohms, min
Reverse Polarity Protection	Yes	Yes	Yes

Ordering Information

AST3200 A 00005 H 1 F 0 000

Series Type

Process Connection

A= 1/4" NPT Male
 B= 1/8" NPT Male
 D= G 1/4" Male
 F= 7/16" - 20 UNF Male

Pressure Range

Insert pressure range from chart

Pressure Unit

H= Inches H₂O

Outputs (Others Available, Consult AST)

1= 0.5-4.5V ratiometric
 3= 1-5V
 4= 4-20mA (2 wire loop powered)

Electrical Interface*

A= 2ft.(0.6m) Cable
 B= 4ft.(1.2m) Cable
 C= 6ft.(1.8m) Cable
 D= 10ft.(3.0m) Cable
 E= Mini DIN 43650C Connector
 F= Packard Metripack 150 3-Pin Connector
 Y= M12 Eurofast

Wetted Material

0= 17-4PH, 304, Silicon, RTV, Glass

Options

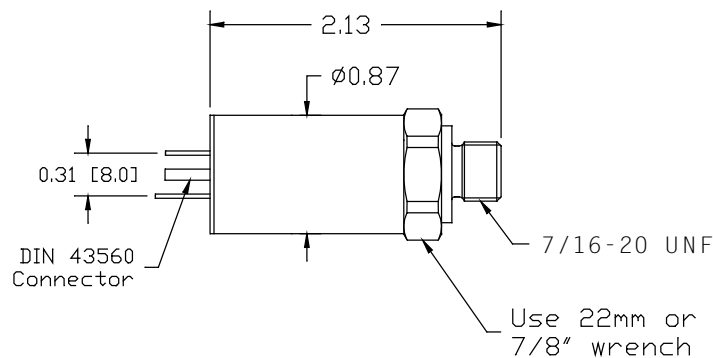
000=No special factory options

*Wiring information available at: <http://www.astensors.com/mediacenter.php>

Pressure Ranges

Inches H ₂ O Measurement	Pressure Range Code
5"	00005
10"	00010
25"	00025
50"	00050

Dimensional Data



Warranty

Workmanship - AST, Inc. pressure transmitters have a limited one-year warranty to the original purchaser. AST, Inc. will replace or repair, free of charge, any defective transmitter. This warranty does not apply to any units that have been modified; misused, neglected or installed where the application exceeds published ratings. AST's sensors are made with pride in New Jersey, USA. If in the area please feel free to stop by for a visit!

Installation/Applications - The purchaser is responsible for media compatibility, functional adequacy, and correct installation of the transmitter.