

AST4800 *Miniature*



High Volume Stainless Steel Pressure Sensor

Overview

With an overall length of less than two inches and a diameter of 0.7 inches, the AST4800 is the perfect solution for pressure measurement in confined areas. Utilizing AST's patented Krystal Bond™ Technology, the sensing element is free of welds, oil-fill, and internal o-rings.

Benefits

- ✓ Compact Design
- ✓ High Strength Stainless Steel Construction
- ✓ Excellent Response Time (<1msec)
- ✓ Compatible with a Wide Range of Liquids and Gases
- ✓ Excellent Price to Performance Ratio

Applications

- ✓ Hydraulic Systems
- ✓ Test Stands
- ✓ HVAC/R
- ✓ Industrial Equipment
- ✓ Panel Builders
- ✓ Automotive
- ✓ Agricultural Equipment



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

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

Environmental Data

Temperature

Operating	-40 to 105°C (-40 to 220°F)
Storage	-40 to 125°C (-40 to 250°F)

Thermal Limits

Compensated Range	0 to 55°C (30 to 130°F)
TC Zero	<±1.5% of FS
TC Span	<±1.5% of FS

Other

Shock	100G, 11 msec, 1/2 sine
Vibration	10G peak, 20 to 2000 Hz.
Rating:	IP-66

Electrical Data

Output	0-50mV (10mV/V)
Excitation	5VDC
Output Impedance	<100 Ohms, Nominal
Current Consumption:	<5mA
Bandwidth	DC to 5kHz, min
Output Noise:	-
Zero Offset:	<±2% of FS
Span Tolerance:	<±2% of FS
Output Load:	>1M Ohms

Ordering Information

AST4800 B 00500 P A A 0 000

Series Type

Configuration Interface

B = 1/8" NPT Male

Pressure Range

Insert 5-digit pressure range code

Pressure Unit

B = Bar

K = kg/cm²

P = PSI

Outputs

A = 10 mV/V

Electrical⁺

A = 2 ft. (.06096m) C = 6 ft. (1.8288m)

B = 4 ft. (1.2192m) D = 10 ft. (3.048m)

Wetted Material

0 = 17-4PH

Options

000= No Special Options

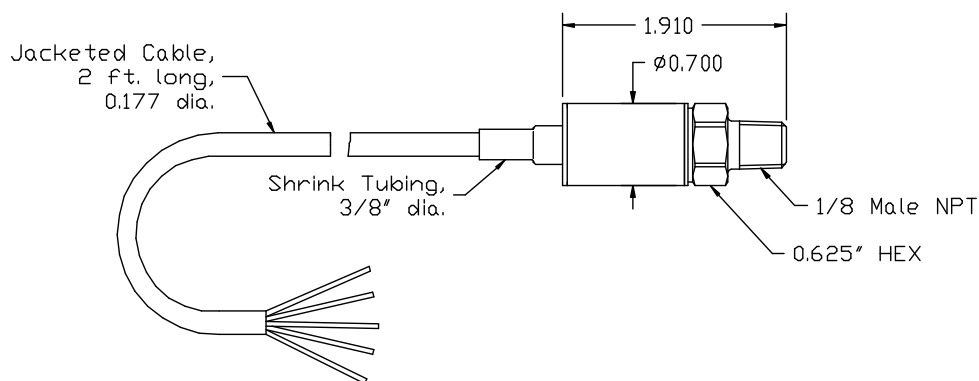
Pressure Ranges*

Gage PSIG	Pressure Range Code
0-500	00500
0-750	00750
0-1,000	01000
0-2,000	02000
0-2,500	02500
0-5,000	05000
0-7,500	07500
0-10,000	10000

*Typical ranges. All ranges between 500PSI and 10,000PSI are available. Please consult factory

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

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. AST4800 is not recommended for use with hydrogen. 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.