

AST4600 Explosionproof CSA Approved For Hazardous Locations

Factory Sealed Pressure Transducer

**RoHS
COMPLIANT
LEAD FREE**

OVERVIEW

The AST4600 Explosionproof Pressure Transducer / Transmitter is approved to CSA 30 (UL1203) Class 1 Div.1 Explosionproof - Groups A, B, C, D for use in Hazardous Areas. Constructed with a simple, yet rugged design, the factory-sealed AST4600 stands up to a variety of Explosionproof applications where price and performance are critical.

BENEFITS

- ◆ All Stainless Steel Construction
- ◆ No Oil, Welds or Internal O-rings
- ◆ Wide Operating Temperature Range
- ◆ Ranges from 50 to 10,000 PSIS (Factory Leak Checked)
- ◆ Low Static and Thermal Errors
- ◆ Rugged Design Withstands Harsh Environments
- ◆ Wide Media Compatibility
- ◆ Suitable for High Shock and Vibration Applications

APPLICATIONS

- ◆ Industrial OEM & Hydrogen Equipment
(316L SS Wetted Material Available)
- ◆ Natural Gas Compressors
- ◆ Refrigeration
- ◆ Pipe Line Instrumentation
- ◆ Pressure Instrumentation
- ◆ Oil Platforms
- ◆ Well Head Pressure
- ◆ Power Generation
- ◆ Energy & Water Management



Performance @ 25°C (77°F)

Accuracy*	< ± 0.25% BFSL
Stability (1 year)	±0.25%FS, typ
Over Range Protection	2X Rated Pressure
Burst Pressure	5X Rated Pressure or 25,000 whichever is less
Pressure Cycles	>100 Million

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

Electrical Data

Output	4-20mA	1-5V, 1-6V
Excitation	10-28VDC	10-28VDC
Output Impedance	>10k Ohms	<100 Ohms, Nominal
Current Consumption:	25mA, Max	<10mA
Bandwidth	(-3dB): DC to 250 Hz	(-3dB): DC to 1kHz
Output Noise:	-	<2mV RMS
Zero Offset:	<±1% of FS	<±1% of FS
Span Tolerance:	<±2% of FS	<±1.5% of FS
Output Load:	0-800 Ohms@10-28VDC	5k Ohms, Min.
Reverse Polarity Protection	Yes	Yes

Environmental Data

Temperature

Operating	-40 to 85°C (-40 to 185°F)
Storage	-55 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.
EMI/RFI Protection:	Yes
Rating:	IP-67



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ORDERING INFORMATION

AST4600 A 00500 P 3 T 1 000

Series Type

Process Connection

A=1/4" NPT Male
I=1/4" NPT Female
P=1/2" NPT Male

Pressure Range

Insert 5-digit pressure range code from chart.
Vxxxx = Vacuum reference for ranges up to 2500 psi

Pressure Unit, Sealed

B=BAR, K=kg/cm², P=PSI

Outputs

3 = 1-5V (3 Wire + Case Connection)
4 = 4-20mA (Loop Powered + Case Connection)
6 = 1-6V (3 Wire + Case Connection)

Electrical Interface

T=2ft. 18 AWE wires
U=4ft. 18 AWE wires
W=2 Meter 18 AWE wires

Wetted Material

0=17-4PH
1=316 L
2=Inconel 718

Options

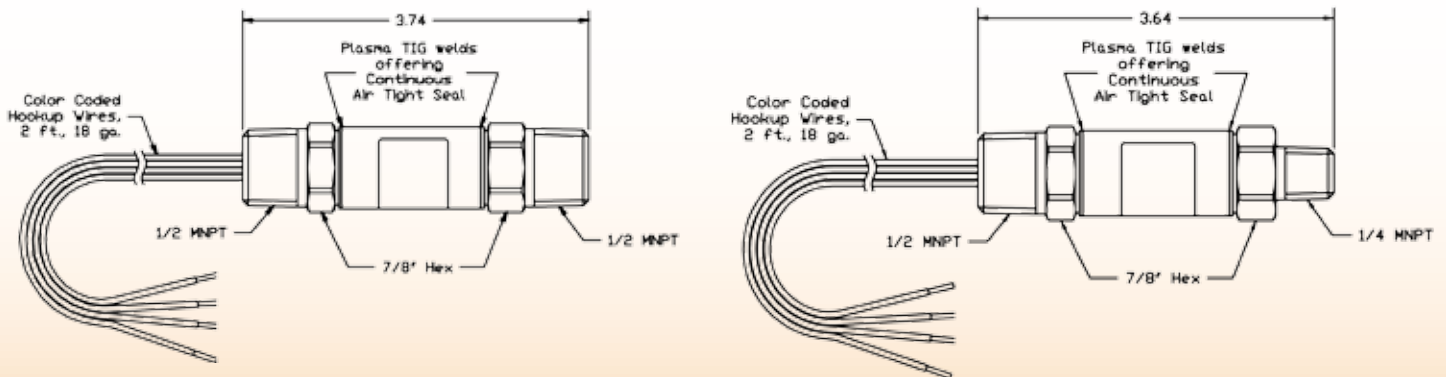
Use 000 for no options

PRESSURE RANGES

Pressure in PSI, Sealed	Pressure Range Code
0-50	00050
0-100	00100
0-200	00200
0-500	00500
0-1,000	01000
0-1500	01500
0-2,500	02500
0-3000	03000
0-5000	05000
0-7500	07500
0-10,000	10000

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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.

Installation/Applications - The purchaser is responsible for media compatibility, functional adequacy, and correct installation of the transmitter. AST's sensors are made with pride in **New Jersey, USA**. If in the area please feel free to stop by for a visit!