



## ABSOLUTE

### Pressure Transducer / Transmitter AST4710

#### Overview

The AST4710 is built for applications requiring absolute pressure measurement of liquids and gases that are compatible with stainless steel. Due to its stainless steel construction, welded housing and high shock and vibration ratings, the AST4710 translates into a rugged, reliable absolute pressure transducer.

Supplied with various pressure port, output and electrical connection options, the AST4710 is well-suited for a variety of applications across many industries.

#### Benefits

- High Accuracy
- High Strength Stainless Steel Construction
- Wide Variety of Media Compatibility
- No Internal O-rings
- Rugged Construction
- CE EN61326
- Suitable for High Shock and Vibration

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### Applications

- Test Stands
- Energy and Water Management
- Autoclave
- Pressure Instrumentation
- Data Loggers
- Barometric Correctors

### Performance @ 25°C (77°F)

<b>Accuracy</b>	< ±0.25% BFSL (Accuracy includes non-linearity, hysteresis & non-repeatability)
<b>Stability (1 year)</b>	±0.25% FS, typical
<b>Over Range Protection</b>	2X Rated Pressure
<b>Burst Pressure</b>	5X Rated Pressure
<b>Pressure Cycles</b>	> 10 Million

### Environmental Data

#### Temperature

<b>Operating</b>	-40 to 85°C (-40 to 185°F)
<b>Storage</b>	-40 to 125°C (-40 to 257°F)

0-100% relative humidity, non-condensing

#### Thermal Limits

<b>Compensated Range</b>	0 to 70°C (32 to 158°F)
<b>TC Zero</b>	< ±1.5% of FS
<b>TC Span</b>	< ±1.5% of FS

#### Other

<b>Shock</b>	EN 60068-2-27
<b>Vibration</b>	EN 60068-2-6, 60068-2-64, and IEC 68-2-32
<b>EMI/RFI Protection:</b>	Yes
<b>Rating:</b>	IP-66

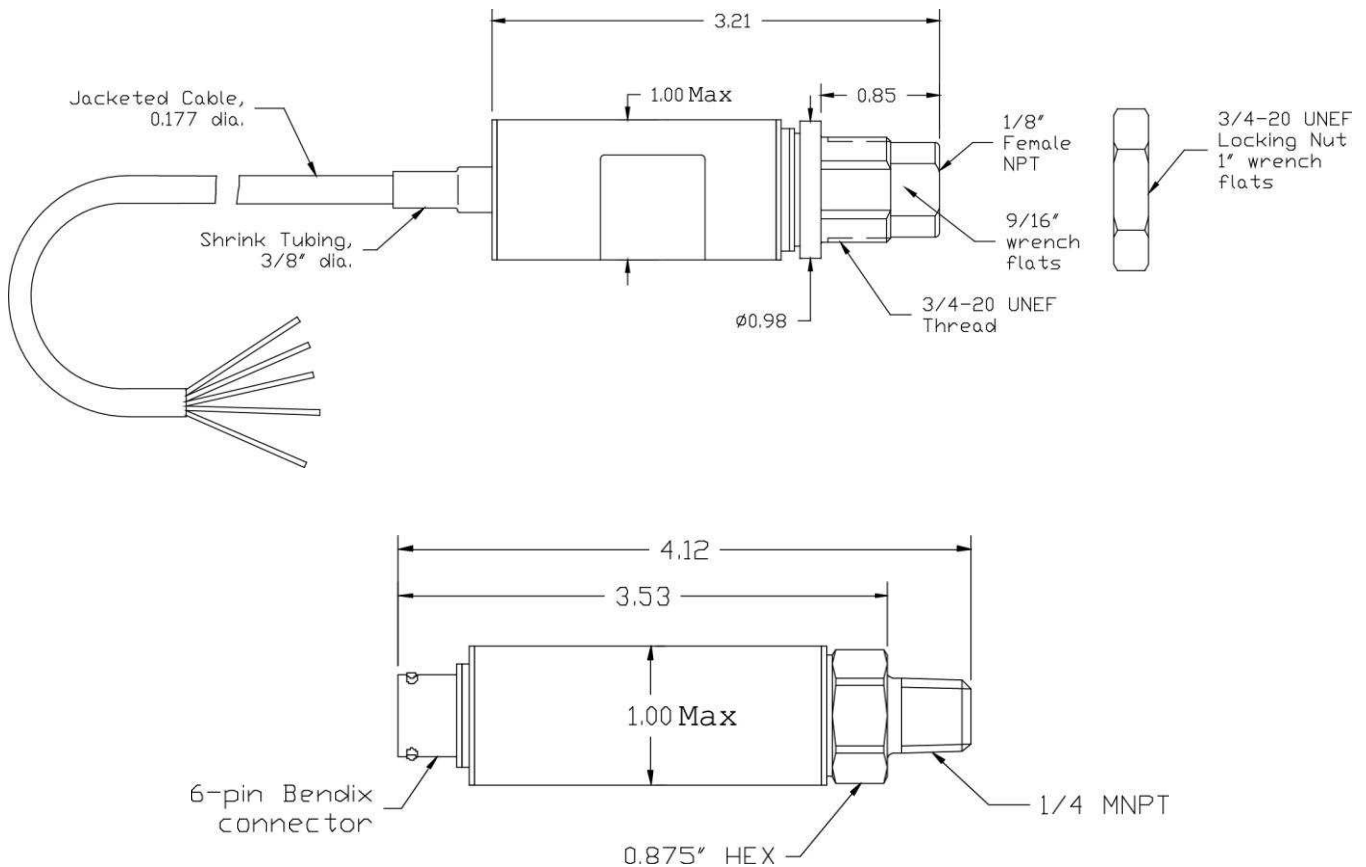
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## Electrical Data

<b>Output</b>	0-50mV (10mV/V)	4-20mA	Voltage (3 Wire)
<b>Excitation</b>	5VDC, typical	10-28VDC	10-28VDC
<b>Output Impedance</b>	5K Ohms, Nominal	> 10k Ohms	< 100 Ohms, Nominal
<b>Current Consumption:</b>	< 5mA	20mA, typical	< 10mA
<b>Bandwidth</b>	(-3dB): DC to 1kHz	(-3dB): DC to 250Hz	(-3dB): DC to 1kHz
<b>Output Noise</b>	N/A	-	< 2mV RMS
<b>Zero Offset:</b>	< ±2% of FS	< ±1% of FS	< ±1% of FS
<b>Span Tolerance:</b>	< ±2% of FS	< ±2% of FS	< ±1.5% of FS
<b>Output Load:</b>	> 1M Ohm	0-800 Ohms@10-28VDC	10k Ohms, Min.
<b>Reverse Polarity Protection</b>	N/A	Yes	Yes

## Dimensions



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## Ordering Information

AST4710

A

A0100

P

4

A

1

000

### Series Type

#### Process Connection

A= 1/4" NPT Male  
C= 1/4" BSPP Male  
F= 7/16" - 20 UNF Male (not available under 50PSI)  
J= 1/8" NPT Female (panel mount, option code "066")  
P= 1/2" NPT Male

#### Pressure Range

Insert 5-digit pressure range code

PSI Absolute	Proof PSIA	Burst PSIA	Pressure Code
0-15	30	75	A0015
0-30	60	150	A0030
0-50	100	250	A0050
0-100	200	500	A0100
0-200	400	1000	A0200
0-300	600	1500	A0300

#### Pressure Unit

P= PSI

#### Outputs

A= 10mV/V  
2= 0-5V (3-wire)  
3= 1-5V (3-wire)  
4= 4-20mA (loop powered)  
5= 0-10V (3-Wire)

#### 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  
I= DIN 43650A  
R= 6- Pin Bendix  
Y= M12x1 Eurofast

#### Wetted Material

1= 316L

#### Options

(contact factory for additional options)  
000= No Options  
066= Panel Mount (1/8"-27 NPT Female Only)

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