



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

Applications

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

Performance @ 25°C (77°F)

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

Environmental Data

Temperature

Operating	-40 to 85°C (-40 to 185°F)
Storage	-40 to 125°C (-40 to 257°F)

0-100% relative humidity, non-condensing

Thermal Limits

Compensated Range 0 to 70°C (32 to 158°F)

TC Zero	< $\pm 1.5\%$ of FS
TC Span	< $\pm 1.5\%$ 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

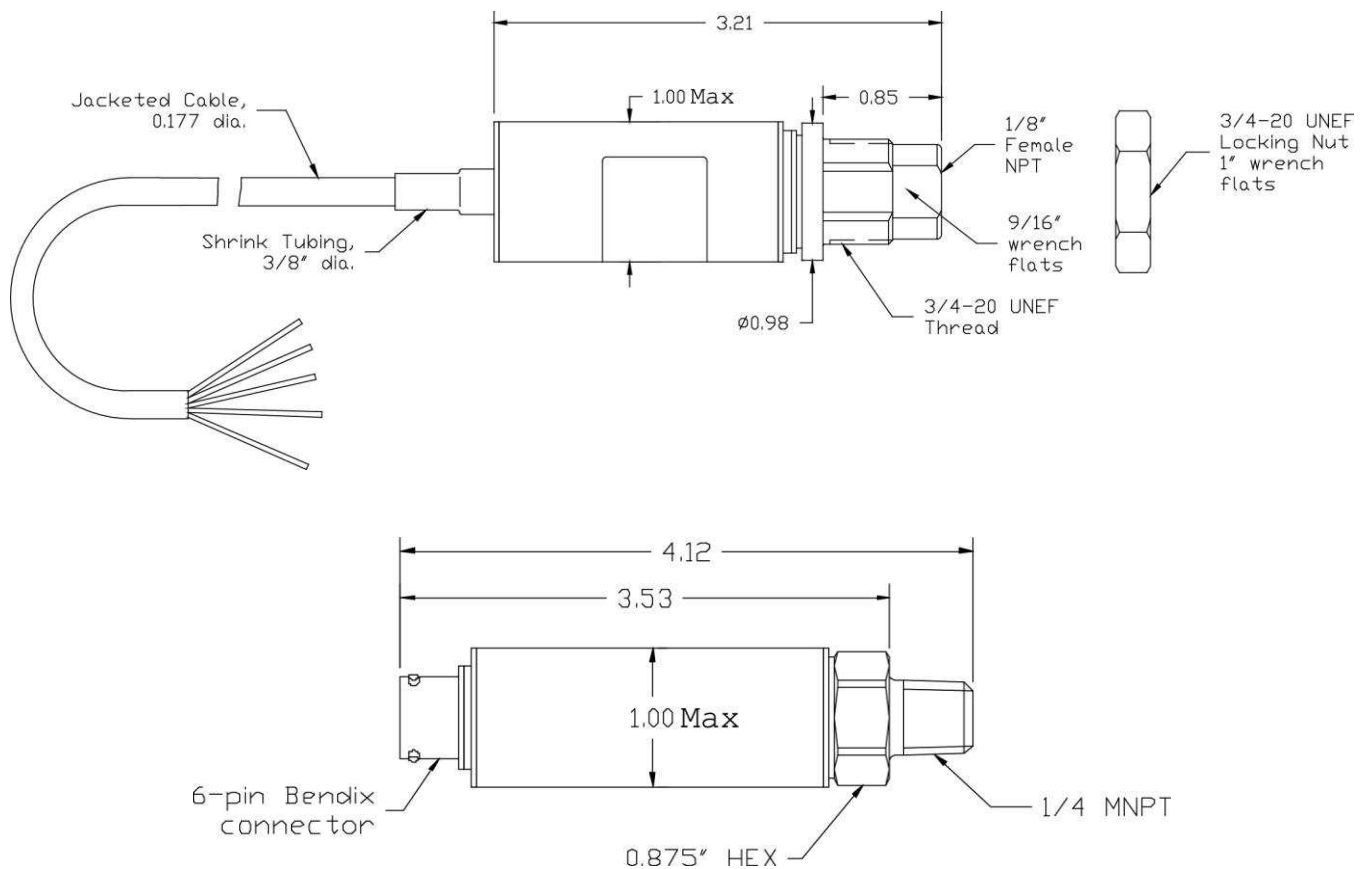
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Electrical Data

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

Dimensions



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	0-15	30	75	Pressure Code	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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