



## LOW COST / COMPACT

### Pressure Sensor & Transducer AST4100

#### Overview

The AST4100 is a compact, low cost pressure transducer with a cable electrical connection. Mainly used in benign environments, the AST4100 is an economical option for pressure sensing.

#### Benefits

- High Strength Stainless Steel Construction
- No Oil, Welds or Internal O-rings
- Wide Operating Temperature
- Pressures up to 10,000 PSI
- Low Static and Thermal Errors
- Unparalleled Price and Performance
- Compatible with Wide Variety of Liquids and Gases
- UL/cUL 508 Approved

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### Applications

- Industrial OEM Equipment
- Water Management
- Pneumatics
- Hydrogen Storage
- Sub Sea Pressure
- HVAC/R Equipment
- Control Panels
- Hydraulic Systems
- Data Loggers

### Performance @ 25°C (77°F)

<b>Accuracy</b>	< ±0.5% BFSL
<b>Stability (1 year)</b>	±0.25% FS, typical
<b>Over Range Protection</b>	2X Rated Pressure, Minimum
<b>Burst Pressure</b>	5X or 20,000 PSI (whichever is less)
<b>Pressure Cycles</b>	>100 Million

### Environmental Data

#### Temperature

<b>Operating</b>	-40 to 85°C (-40 to 185°F)
<b>Storage</b>	-40 to 100°C (-40 to 212°F)

#### Thermal Limits

<b>Compensated Range</b>	0 to 55°C (32 to 132°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>	No
<b>Rating:</b>	IP-66

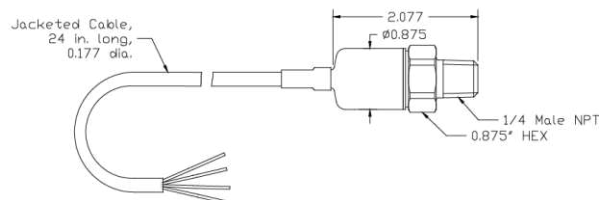
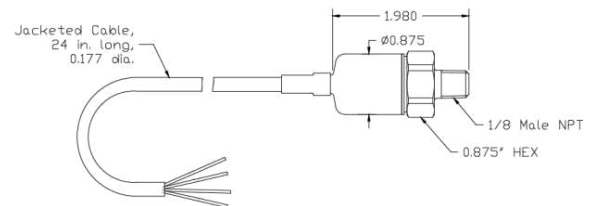
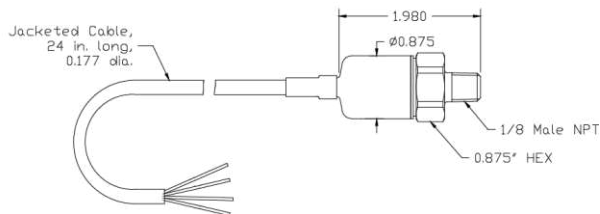
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### Electrical Data

<b>Output</b>	4-20mA	1-5VDC, 1-6VDC	0-50mV (10mV/V)	0.5-4.5V Ratiometric
<b>Excitation</b>	10-28VDC	10-28VDC	5VDC, typical	5VDC, regulated
<b>Output Impedance</b>	>10k Ohms	<100 Ohms, Nominal	1100 Ohms, Nominal	<100 Ohms, Nominal
<b>Current Consumption:</b>	20mA, typical	<10mA	<5mA	<10mA
<b>Bandwidth</b>	(-3dB): DC to 250 Hz	(-3dB): DC to 1kHz	(-3dB): DC to 5kHz, min	(-3dB): DC to 1kHz
<b>Output Noise</b>	-	<2mV RMS	-	<2mV RMS
<b>Zero Offset:</b>	<±1% of FS	<±1% of FS	< ±2% of FS	<±1% of FS
<b>Span Tolerance:</b>	<±1.5% of FS	<±1.5% of FS	< ±2% of FS	<±1.5% of FS
<b>Output Load:</b>	0-800 Ohms@10-28VDC	10k Ohms, min	>1M Ohms	10K Ohms, min
<b>Reverse Polarity Protection</b>	Yes	Yes	-	Yes

### Dimensions



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### Ordering Information

AST4100

A

00500

P

4

A

1

000

#### Series Type

#### Process Connection

A= 1/4" NPT Male

B= 1/8" NPT Male\*

C= 1/4" BSPP Male

F= 7/16" - 20 UNF Male\*

\*"B" and "F" not available under 50PSI ("B" not available in 316L)

#### Pressure Range

Insert 5-digit pressure range code (example: 0-100 PSI = 00100)

Ranges between 0-25 PSI and 0-10,000 PSI available. Compound pressure up to -14.7 to 500 PSI.

#### Pressure Unit

B= Bar    K= kg/cm<sup>2</sup>    P= PSI

#### Outputs

1= 0.5-4.5V ratiometric

3= 1-5V

4= 4-20mA (2 wire loop powered)

6= 1-6V

#### Electrical

A= 2 ft. (0.6m)

B= 4 ft. (1.2m)

C= 6 ft. (1.8m)

D= 10 ft. (3.0m)

#### Wetted Material

0= 17-4PH    1= 316L

#### Options

(contact factory for additional options)

000= No Options

## 联系方式



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