



## GENERAL PURPOSE / OEM PRESSURE TRANSDUCER

### Models 1002, 1003



#### APPLICATIONS:

- Automotive
- Industrial OEM
- Hydraulic Systems
- Compressor Controls
- Pneumatic Controls
- Pump Controls

#### FEATURES:

- Low Cost, High Reliability
- 0.5% FSO standard accuracy, 0.25% FSO optional.
- Small size - lightweight
- Rugged, all welded construction
- NEMA - 4X/IP65 rated

#### PRESSURE RANGES:

- From 0-5 to 0-10,00 PSI

#### Accuracy:

(Includes Hysteresis, Non-linearity, Non-Repeatability)  
• 0.5% (BFSL)

**Resolution:** Infinite (Practical = 0.06% FSO)

#### Temperature Limits:

- Compensated: 0° F to 180° F
- Operating: -40° F to 180° F
- Storage: -40° F to 250° F

#### Temperature Compensation:

- Zero & Span:  $\pm 2.0\%$  FSO/100°F

#### Electricals:

- Approvals: CE EN 50 081-1
- Excitation: 9-36 Vdc
- Zero Balance:  $\pm 2\%$  FSO
- Span Tolerance:  $\pm 2\%$  FSO
- Insulation: 10 M Ohms at 50 VDC Pin to Case
- Current Draw (**1002**): 3.5 mA Nominal 6mA max

#### Mechanicals:

- Response Time: 5 ms
- Proof Pressure: 1.5 X Pressure range
- Burst Pressure: 3 X Pressure range or 17,500 psig
- Pressure cavity material: 316 SST and 17-4 SST

#### Connections:

- Pressure: 1/4 NPT male (see options)
- Electrical: 36" cable

#### Enclosure:

- Materials: 316 SST and nylon
- Rating: NEMA - 4X, IP65

#### Resistance to shock:

- According to IEC 68-2-32: 1m (Free-fall onto steel plate)

#### Vibration Resistance:

- According to IEC 68-2-6 & 68-2-36: 20g

#### WIRING:

RED  
GREEN  
BLACK  
SHIELD

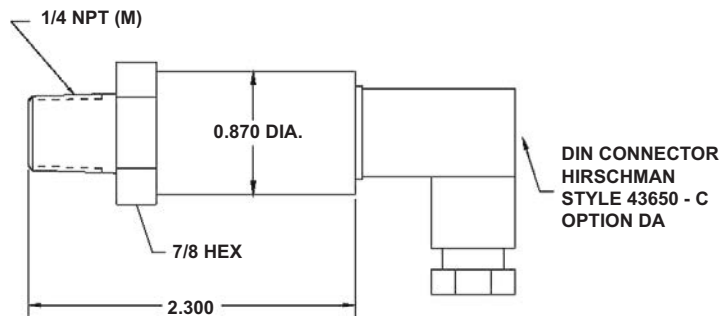
#### 1002

+EXC.  
+SIGNAL  
-EXC.  
OPEN

#### 1003

+EXC./SIGNAL  
NC  
-EXC./SIGNAL  
OPEN

Some options will affect dimensions. Consult factory if important.



Units are in inches



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Typical configurations (consult factory for more options)

#### MODELS

**1002** 0-5 Vdc - .5 - 4.5 available  
**1003** 4-20 mA

#### ACCURACY (STATIC)

**B** 0.5% FSO  
**C** 0.2% FSO

#### PRESSURE RANGE (PSI)

<b>PP</b>	0-15	<b>RK</b>	0-750
<b>PT</b>	0-30	<b>RM</b>	0-1000
<b>PV</b>	0-50	<b>RO</b>	0-1500
<b>PX</b>	0-75	<b>RR</b>	0-2000
<b>PZ</b>	0-100	<b>RS</b>	0-2500
<b>RB</b>	0-150	<b>RT</b>	0-3000
<b>RD</b>	0-200	<b>RV</b>	0-5000
<b>RE</b>	0-250	<b>RX</b>	0-7500
<b>RF</b>	0-300	<b>RZ</b>	0-10,000
<b>RH</b>	0-500		

#### PRESSURE TYPES

**2** Gauge  
**4** Vacuum  
**3** Absolute  
**7** Sealed Gauge  
**10** Compound

#### OPTIONS

##### ALTERNATE CONNECTOR OR CABLE

**AA** 36" wire leads  
**CF** 1/2" NPT Male Nylon Conduit with 36" Cable  
**DA** DIN 43650-C Connector with Mate  
**DC** Turck M12

##### ALTERNATE PRESSURE PORT

**AA** 1/4 NPT Male - Standard  
**FL** 1/8 NPT Male  
**FO** G 1/4 (1/4 BSSP)  
**LT** SAE - 4 Male

\*Consult factory for other options

#### NOTE:

Specifications reflect standard product, improved performance / mechanical options available.

Modifications may alter specs, consult factory for more information.

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