



## Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

Tel. (716) 773-9300 • Fax (716) 773-5019

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### 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

#### WIRING:

RED  
GREEN  
BLACK  
SHIELD

#### 1002

+EXC.  
+SIGNAL  
-EXC.  
OPEN

#### 1003

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

#### 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

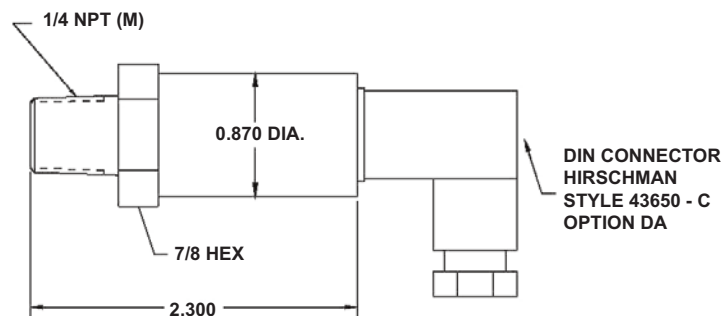
#### Resistance to shock:

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

#### Vibration Resistance:

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

Some options will affect dimensions. Consult factory if important.



Units are in inches

A5SL-1000.00 Rev D



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Typical configurations (consult factory for more options)

#### MODELS

**1002** 0-5 Vdc - .5 - 4.5 available

**1003** 4-20 mA

#### PRESSURE RANGE

**B** 0.5% FSO

**C** 0.2% FSO

#### PRESSURE RANGE

(PSI)

**PP** 0-15

**PT** 0-30

**PV** 0-50

**PX** 0-75

**PZ** 0-100

**RB** 0-150

**RD** 0-200

**RE** 0-250

**RF** 0-300

**RH** 0-500

**RK** 0-750

**RM** 0-1000

**RO** 0-1500

**RR** 0-2000

**RS** 0-2500

**RT** 0-3000

**RV** 0-5000

**RX** 0-7500

**RZ** 0-10,000

#### 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

#### PRESSURE TYPES

**2** Gauge

**4** Vacuum

**3** Absolute

**7** Sealed Gauge

**10** Compound

#### NOTE:

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

Modifications may alter specs, consult factory for more information.