

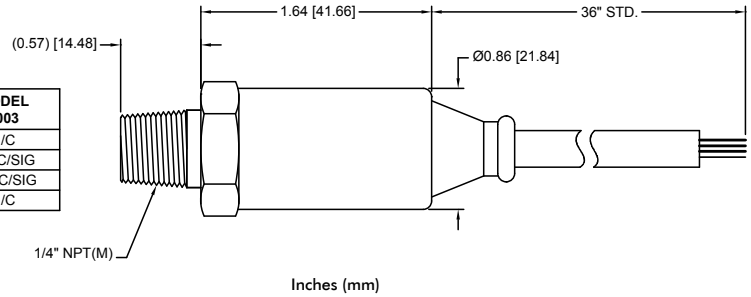
MODEL 1002 / 1003

LOW-COST OEM PRESSURE TRANSDUCER



STANDARD WIRING

| WIRE | MODEL 1002 | WIRE | MODEL 1003 |
|------------|------------|------------|------------|
| 1/RED | +EXC | 1/WHT | N/C |
| 2/BLK | -EXC/SIG | 2/BLK | -EXC/SIG |
| 3/WHT | +SIG | 3/RED | +EXC/SIG |
| GND/SHIELD | N/C | GND/SHIELD | N/C |



Standard configurations shown.
Please consult factory for other options.

PRODUCT OVERVIEW:

The Model 1002/1003 from GP:50 is a family of lower cost, industrial grade OEM pressure transducers, featuring corrosion-resistant, all stainless steel wetted parts and housings. Series transducers are ideal for higher volume pressure monitoring applications, particularly where lower costs are required, yet where the need for precision measurement accuracy remains. Units are available with choice of 4-20 mA, 0 to 5 Vdc or 0 to 10 Vdc output, as well as various electrical connection and pressure port options. Typical applications for the Model 1002/1003 include off-road vehicle, HVAC/R, hydraulic and pneumatic control systems, pumps and compressors, and industrial engine pressure monitoring.

FEATURES:

- Low-cost, high reliability
- Up to 0.25% FSO accuracy
- Compact 0.870" diameter
- Rugged, all welded construction
- NEMA - 4X/IP65 rated
- CE Directives: EMC, PED, ROHS

APPLICATIONS:

- Automotive
- Industrial OEM
- On-board vehicle
- Compressor controls
- Pneumatic/hydraulic controls
- Pump controls

OPTIONS:

- 4-20 mA, 0-5 Vdc, 0-10 Vdc and 10 mV/V outputs available
- Alternate connectors & pressure ports

GP:50 MODEL 1002 / 1003

REFERENCE SPECIFICATIONS

Standard configurations shown, consult factory for other options

| ELECTRICAL | |
|---------------------|--|
| Output Signal: | (1002) 0 to 5 Vdc, 0 to 10 Vdc (1003) 4-20 mA |
| Excitation Voltage: | 9 to 32 Vdc |
| Compliance: | CE directives: EMC, PED, ROHS |
| Circuit Protection: | Reverse polarity |
| Response Time: | <5 ms |

| MATERIALS OF CONSTRUCTION | |
|---------------------------|---|
| Wetted Parts: | 316 stainless steel or 17-4 stainless steel |
| Housing: | 316 stainless steel |
| Internal Fill: | May contain Silicone oil fill (consult factory for alternatives) |

| ACCURACY (BFSL): Hysteresis, non-Linearity & Repeatability @ +70 °F | |
|---|--------------------|
| Standard: | ±0.5% FSO |
| Improved: | ±0.25% FSO |
| Zero Balance & FSO: | ±1.0% FSO @ +70 °F |

| MECHANICAL | |
|------------------------|--|
| Process Connection: | ¼" NPT (M) standard (other options available) |
| Electrical Connection: | 36" long, 24 AWG, 4 conductor cable (Other options available) |
| Proof Pressure: | 1.5X FSO |
| Burst Pressure: | 3X FSO or 17,500 PSIG (1,207 BAR), whichever is less |
| Approximate Weight: | <4 oz. (113 g) |

| PRESSURE RANGES | |
|--|--|
| 0 to 15 thru 0 to 10K PSI (1,034 mBAR thru 689 BAR), gauge, vacuum, and absolute pressure reference available | |

| THERMAL SPECIFICATIONS | |
|------------------------|--------------------------------------|
| Operating Range: | -40 °F to +180 °F (-40 °C to +82 °C) |
| Compensated Range: | 0 °F to +180 °F (-17.7 °C to +82 °C) |
| Storage Ambient: | -40°F to +250 °F (-40 °C to +121 °C) |
| Effect on Zero/Span: | <±2.0% FSO/100 °F |

