



## Pneumatic Devices:

### 980-2350 Series Pressure Transducer, Analog, Subminiature

#### FEATURES

- Sealed stainless steel housing
- Low cost
- Subminiature (.56" DIA x 1.16"L) and lightweight
- OEM equipment applicable
- O-ring sealed 10-32 NF fitting
- Smart digital electronics for zero offset, gain and temperature compensation
- 4 pin self-aligning snap in connector
- Various molded cable options
- Gage and absolute pressure ranges

#### PRODUCT DESCRIPTION

The 980-2354 and 980-2355 pressure transducers are used for general purpose applications where size, performance, and low cost are requirements. Each transducer contains a digitally programmed electronic circuit to provide accurate zero offset, gain and temperature compensation settings ; a precision voltage regulator and a buffer amplifier for the analog output signal.

These transducers are sealed in a stainless steel body with a self aligning snap-in 4 pin electrical connector. The 10-32 male thread is sealed with a Viton O-ring for the pressure connection as well as the mounting screw.

The 980-2356 and 980-2357 pressure transducers are effectively the same except the accuracy is .1%.



#### ORDERING INFORMATION

##### Part Number

- |          |                                                                                                                   |
|----------|-------------------------------------------------------------------------------------------------------------------|
| 980-2354 | Transducer, pressure, sub-miniature, solid state, 100 PSIG, 0-5.0 VDC output, 1% accuracy (pressure only).        |
| 980-2355 | Transducer, pressure, sub-miniature, solid state, 100 PSIA, 0-5.0 VDC output, 1% accuracy (pressure and vacuum).  |
| 980-2356 | Transducer, pressure, sub-miniature, solid state, 100 PSIG, 0-5.0 VDC output, .1% accuracy (pressure only).       |
| 980-2357 | Transducer, pressure, sub-miniature, solid state, 100 PSIA, 0-5.0 VDC output, .1% accuracy (pressure and vacuum). |

##### Cables\*

- |           |                                                                                      |
|-----------|--------------------------------------------------------------------------------------|
| 290-0216  | 4 conductor cable with molded female snap-in connector, 2 meter length, PVC.         |
| 290- 0217 | 4 conductor cable with molded female snap-in locking connector, 2 meter length, PVC. |

\*Other various lengths and insulating materials available.

Contact Robitech for more details.

## SPECIFICATIONS

### Mechanical

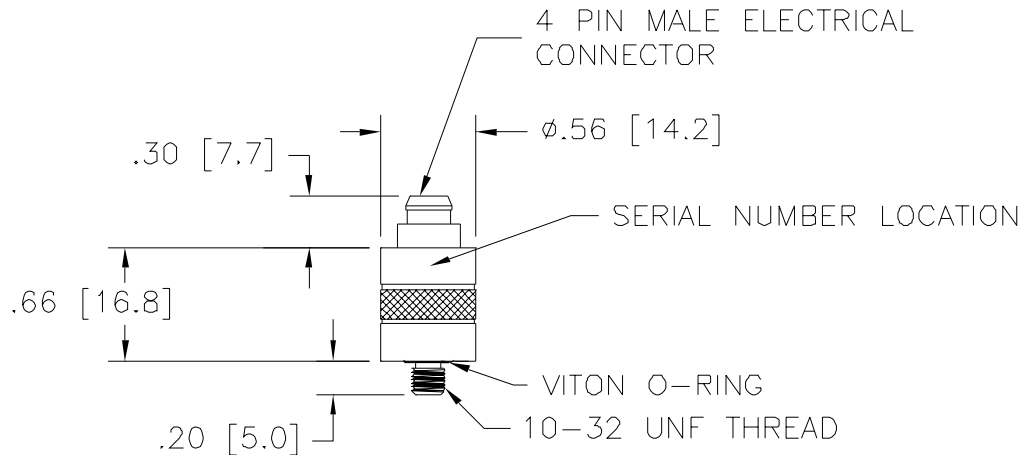
- Size:** .56" [14.2mm] dia x 1.16" [29.5mm] L
- Weight:** < .75 oz [21.3g]
- Materials:** 300 series stainless steel body with Viton O-ring seal
- Media:** Non-corrosive air filtered to 40 microns or better.
- Pressure Range:** 0 to 100 PSIG for P/N 980-2354, 56  
0 to 100 PSIA for P/N 980-2355, 57
- Air flow:** Static
- MTBF:** 50,000 hours minimum
- Operating Speed:** < 100 microseconds
- Operating Temperature:** 0 C to +50 C
- Operating Humidity Tolerance:** 99% non-condensing

### Electrical

- Connections:** 4 pin male connector, machined brass, gold over nickel plating.
- Voltage Requirements:** +6.0 VDC to +30 VDC
- Current:** Typically 2 mA (Quiescent)
- Output Signals:** 0.5 VDC to 4.5 VDC full scale @ 35mVDC per 1 PSI typical
- Overall Accuracy:** < 1% FS @ 0 C to + 50 C for P/N 980-2354, 55  
< .1% FS @ 0 C to +50 C for P/N 980-2356, 57
- Repeatability:** .05% FS
- Linearity:** 0.1% FS typical
- Response Time:** 100 microseconds

*\*metric dimensions, millimeters, grams etc., are shown in brackets*

### Assembly Detail for 980-2350 Series Pressure Transducer



### Cable Connections

