



## Pressure Transducer For Water Level Measurements S1351

- **Level & depth with or without vent tube**
  - **Small rugged package**
- **Broad selection of pressure ranges**
- **Fully temperature compensated**

This series of transducers/transmitters is specifically designed to meet the rigorous environments encountered in level measurement applications. These transmitters provide repeatable, precision depth measurements under the most adverse conditions.

Each transducer incorporates an isolated diaphragm sensor which is specifically designed for use in hostile environments.

These sensors utilize a silicon pressure cell that has been fitted into a stainless steel housing with an integral, compliant stainless steel barrier diaphragm. The sensor assembly is housed in a rugged 316 SS case.

Each transmitter is shipped with a calibration card specific to that transmitter. Custom calibration is available for those applications where more extensive data is required.





## Technical Specifications

S1351

### Performance

|                  |   |
|------------------|---|
| Pressure Range:  | 0-5 through 0-300 PSIG  |
| Static Accuracy: | +/- 0.25% FSO BFSL (730)  |
| Thermal Error:   | 0.05% FSO/°C worst case (710, 720, 730)<br>0.1% FSO/°C worst case (700) |
| Proof Pressure:  | 1.5 X rated pressure  |
| Burst Pressure:  | 2.0 X rated pressure  |
| Resolution:      | Infinitesimal   |

### Environmental

|                        |   |
|------------------------|---|
| Comp. Temp. Range:     | 0°C to 50°C (710, 720, 730)<br>10°C to 30°C (700) |
| Operating Temp. Range: | -10°C to 60°C                                     |

### Electrical

|                         |  |
|-------------------------|--|
| Excitation:             | 9 to 30 VDC  |
| Input Current:          | 20 mA maximum  |
| Output:                 | 0-5 VDC (3 wire)<br>4-20 mA (2 wire)                                 |
| Zero Offset, Max:       | 0-5 VDC: +/- 60 mV<br>4-20 mA: +/- 0.12 mA                           |
| Output Impedance:       | <10 ohms   |
| Insulation Resistance:  | 100 mega-ohms at 50 VDC  |
| Circuit Protection:     | Polarity, surge and shorted output                                   |
| Power Supply Rejection: | < +/- 0.001% FSO/VDC (VDC output)<br>< +/- 0.05% FSO/VDC (mA output) |

### PHYSICAL

|                      |   |
|----------------------|---|
| Weight:              | 7 oz. (not including cable)   |
| Cable:               | Polyurethane jacketed cable with polyethylene vent tube<br>and Kevlar tension members,<br>200 lbs pull strength, Tefzel jacket optional |
| Wetted Materials:    | 316 SS, Viton   |
| Mounting Provisions: | Suspended by cable<br>For turbulent conditions, specify optional mounting bracket   |