

- **±0.1% & ±0.25% ACCURACY**
- **10 INCHES H<sub>2</sub>O TO 300 PSI**
- **316 SS OR TITANIUM HOUSING**
- **UNIQUE CABLE SEAL SYSTEM**
- **CABLE LENGTHS TO 5000 FT**
- **4-20 mA, 2-WIRE OPERATION**
- **FULLY TEMPERATURE COMPENSATED**



### GENERAL DESCRIPTION

The 3500 Series submersible pressure transducers are specifically designed for depth and level measurements of groundwater, wastewater, and seawater. Typical applications are wells, dams, irrigation systems, sewage lift stations, rivers, and oceanography. The transducer is encased in a corrosion resistant, 316 stainless steel housing that is suitable for many applications. Titanium housings are available for use in highly corrosive chemical environments when stainless steel is not adequate. Titanium housings are also ideal for long term exposure to brackish water or for seawater applications.

These Transducers are 2-wire, loop powered devices with 4 to 20 mA outputs. They can be used in a wide variety of applications with input spans ranging from 300 psi down to 10 inches of water column.

The standard polyurethane vented cable is molded to the transmitter providing the highest level water proof integrity. This unique assembly has been well proven in thousands of installations worldwide. Kevlar reinforcement is provided preventing cable elongation when longer lengths of up to 5000 feet are required for deep wells. FEP jacketed cable is also available for use in extremely harsh environments.

An extensive range of accessories are available including Sink Weights, Cable Hangers, and a unique method of avoiding water ingress through the breather tube, for vented gauge pressure transducers. Also offered are Calibration Adapters, Lightning Protection, and Cable termination Boxes.

**SPECIFICATIONS:**

**Full Scale Ranges (Zero Based):**

0-10, 20, 30, 50" WC  
0-1, 5, 10, 15, 30, 50, 100, 150, 200, 300 PSIG  
0-50, 100, 150, 200, 300 PSIA  
Other ranges and pressure units can be specified

**Accuracy:**

±0.1% FS (BSL) or ±0.25% FS (BSL)  
Combined non-linearity, hysteresis, and repeatability

**Overpressure:**

Full scale ranges up to 20 psi: 10X  
Above 20 to 150 psi: 4X  
Above 150 psi: 2X

**Operating Temperature Range:**

-20° to 80°C (-4° to 176°F)

**Compensated Temperature Range:**

-2° to +30°C (28° to 86° F)

**Temperature Effects (Error Band, Compensated):**

High Accuracy (±0.1%)  
±0.3% For ranges 5 psi and above  
±1.0% For ranges below 5 psi

Standard Accuracy (±0.25%)  
±1.5% For ranges 5 psi and above  
±2.0% For ranges below 5 psi

**Electrical:**

2-wire, 4-20 mA, 12-40 VDC power

**Cable:**

Polyurethane moled vented with Kevlar, 4 conductors  
Contact factory for FEP cable

**Housing:**

316L Stainless Steel or Titanium  
*Note: 5-year corrosion warranty included for Titanium housing.*

**MODELS:**

3501 Stainless Steel Body  
3502 Titanium Body

**Weight:**

7.6 oz. (excluding cable)

**ORDERING INFORMATION:**

PART NUMBER CONFIGURATION				
MODEL	PRESSURE RANGE	ACCURACY ±0.1%, 0.25%	CABLE LENGTH	OPTIONS

**Models:**

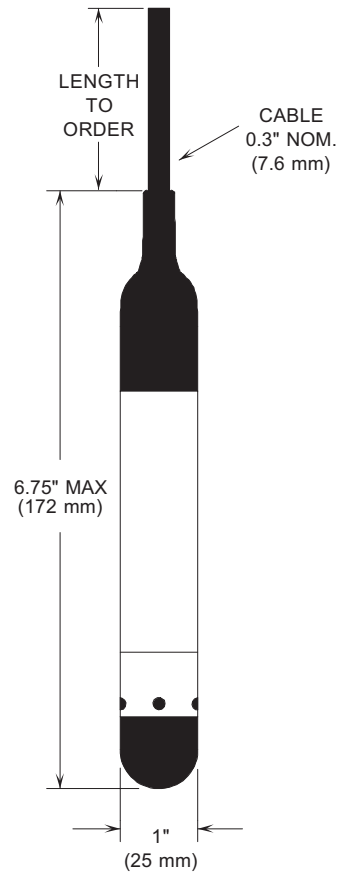
3501 Stainless Steel Body  
3502 Titanium Body

**Options:**

-MP11 Moisture Protection (Vent Tube Reference Balloon)  
-CH10 Cable Hanger  
-FEP FEP Cable for Harsh Environment  
-SW Sink Weight  
-LA Lightning Arrestor

Example Ordering Format

3501-5PSI-0.25%-25'-MP11



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