

MODEL 5050LL-PTD Pressure Transducer

General Description

The HydroLynx Model 5050LL-PTD Pressure Transducer (PT) combines a submersible probe, designed specifically for depth and level measurements, with the convenience of an external signal conditioning circuit mounted in a desiccant box.

The probe's pressure sensing element is isolated from the water by a titanium diaphragm and the electronics are housed in a titanium body. The PT cable, which is molded to the body, is a thick wall polyurethane jacketed cable with an integral vent tube and Kevlar strain relief cord.

The external signal conditioning allows each sensor to have the same calibration so there is no need to have individual calibration values at the central site computer. Also, the sensor can be re-calibrated to accommodate the probe's long term drift.

An accurate water level measurement requires a dry ambient air pressure reference that the desiccant box provides. The PT is supplied with a can of indicating desiccant that changes from blue to pink when the desiccant bag should be replaced. Both the can and bag are rechargeable.

Specifications

Probe

Pressure Range:..... 0 to 5 through 0 to 250 PSIG
Over Pressure:..... 4x
Combined Non-linearity, Hysteresis,
and Repeatability: $\pm 0.1\%$ F.S. BSL
Long Term Drift:..... Typically $\pm 0.1\%$ F.S.
Temperature Range
 Operation:..... -20 to 60 °C
 Compensated: -2 to 30 °C
Temperature Effects: $\pm 0.3\%$ Total Error Band
PT Cable Length:..... 40 ft. standard.
 Order additional cable per foot. 500 ft. max
 (consult factory for longer lengths)
Dimensions:..... 0.69 in. diameter x 3.8 in. long

Signal Conditioning and Desiccant Box

Range: 25.5 ft. Standard or
 Customer Specified
Output:..... 0 to 5 Vdc
Power:..... 10 to 15 Vdc, 20 mA
Signal Cable:..... 25 ft., 5 conductor shielded
Electrical Connection: 4-pin MS (rotated)
Dimensions:..... 6 in. x 4 in. x 4 in.
Weight: 3 lbs.

Ordering Information

5050LL-PTD..... Pressure Transducer (Specify Range in ft.)
5050LL-PTD-C..... Additional Cable, per foot (500 ft. max)
5050LL-PTD-M..... Mounting Bracket for Standpipe Installation



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