

Rigid Magnetostrictive Probe for Inventory Management



Product Description

The MP451S Level Gauging Probe utilizes proven Magnetostrictive technology for accuracy and reliability. The probe is available in lengths from eighteen feet to twenty-four feet.

Applications

- Above and Below Ground Storage Tanks
- Bulk Storage Tanks
- All Petroleum Products
- Most Chemical Solvents

Specifications

- Technology: Magnetostrictive, Dual Float
- Accuracy (Minimum):
 - Product Level: 0.0005" (0.013 mm)
 - Water Level: 0.001" (0.025 mm)
 - Temperature: 0.001 °F (0.0006 °C)
- Materials:
 - Shaft: 316 SS
 - Floats: Buna-N (Optional 316 SS or Urethane)
- Mounting: Minimum 2" (51 mm) opening with bushing or flange mount
- Probe Lengths: 18' – 24' (5.5 m – 7.3 m)
- Temperature Sensing: 6 Thermistors; 5 in shaft, 1 in probe head
- Location Approval: UL Class I, Div 1, Groups C and D; cUL Class I, Zone 0, Group IIB
- Operating Temperature: -40 °F to 175 °F (-40 °C to 80 °C)
- Operating Pressure: 150 PSIG (1034 kPa)
- Field Wiring: 22AWG, 2-Conductor twisted pair w/ shield
Belden 8441, Belden 8761, Alpha 1736C or equiv., maximum length 3000' to 4600' (914 m to 1402 m)

Installation

Probe is direct-mounted at the tank top via a 3/4" NPT compression fitting kit.

Certifications/Approvals

- UL/cUL Approved*, File #E139464

* When used in conjunction with the TMS2000/3000 series controllers

Note: Specifications subject to change without notice. 04-01-2013