

Rigid Magnetostrictive Probe, EPA Compliant*



Product Description

The MP450S Level Gauging Probe utilizes proven Magnetostrictive technology for accuracy and reliability. When used in conjunction with the TMS2000/3000, it provides the ability to perform EPA compliant in-tank leak tests in underground storage tanks. The probe is available in lengths up to eighteen feet.

Applications

- Above and Below Ground Storage Tanks
- Bulk Storage Tanks
- Generator Sub Base Tanks
- Oil / Water Separators (See MP452S Series spec)
- All Petroleum Products
- Most Chemical Solvents

Specifications

- Technology: Magnetostrictive, Dual Float, w/ reflection resolution doubling
- 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)
- Riser Mount: Minimum 2" (51 mm) dia. riser, 4" (102 mm) dia. riser required for in-tank leak
- Direct Mount: Minimum 2" (51 mm) opening with bushing or flange mount
- Probe Lengths: 1' – 18' (305 mm – 5486 mm)
- 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, 8761, Alpha 1736C or equiv., maximum length 3000' to 4600' (914 m to 1402 m)

Installation

Probes 15' (4.6 m) or less in length can be installed into a vertical riser pipe with the probe foot contacting the tank bottom, or direct-mounted at the tank top via a 3/4" NPT compression fitting kit. Probes greater than 15' (4.6 m) must be direct-mounted.

Certifications/Approvals

- UL/cUL Approved*, File #E139464
- Third-Party Approved, EPA-Compliant for In-Tank Leak Testing:*
 - Up to 20,000 Gal. (75,708 Liter) tank capacity, minimum tank inventory for test 20%
 - 0.2 GPH (0.8 LPH) Leak Test: Pd = 99.9%, Pfa = 0.1%
 - 0.2 GPH (0.8 LPH) Quick Test: Pd = 95%, Pfa = 5%
 - 0.1 GPH (0.4 LPH) Precision Test: Pd = 95.3%, Pfa = 4.7%
 - Up to 75,000 Gal. (283,906 Liter) tank capacity, minimum tank inventory for test 50%
 - 0.2 GPH (0.8 LPH) Leak Test: Pd = 97.3%, Pfa = 2.7%

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

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