

## Rigid Magnetostrictive Probe



### Product Description

The MP550S Level Gauging Probe utilizes proven Magnetostrictive technology for accuracy and reliability. 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 MP552S Series spec)
- All Petroleum Products
- Most Chemical Solvents

### Specifications

- Technology: Magnetostrictive, Dual Float, w/ reflection resolution doubling
- Accuracy (Minimum):
  - Product Level: 0.01" (0.254 mm)
  - Water Level: 0.01" (0.254 mm)
  - Temperature: 0.1 °F (0.06 °C)
- Materials:
  - Shaft: 316 SS
  - Floats: Buna-N (Optional 316 SS or Urethane)
- Riser Mount: Minimum 2" (51 mm) dia. riser
- 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, 3-Conductor w/ shield
  - Belden 6501FE or equiv., maximum length 50' (15.2 m)
- Compatible With: TMS1000, TMS2000W/WiDAM, TMS4000W/WiDAM

### 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

\* When used in conjunction with the TMS2000W/TMS4000W series WiDAM Wireless Data Acquisition Module

Note: Specifications subject to change without notice. 10-07-2022