

## Flexible Magnetostrictive Probe



### Product Description

The MP46xS Series Level Gauging Probe utilizes proven Magnetostrictive technology for accuracy and reliability. Its flexible shaft construction permits easy shipping, handling, and installation of probes up to seventy feet in length. The MP46xS Series Level Gauging Probe is ideally suited for large bulk storage tanks to seventy feet in height.

### Applications

- Above and Below Ground Storage Tanks
- Bulk Storage Tanks
- Low ceiling clearance: (Minimum 14" (356 mm))
- All Petroleum Products
- Most Solvents, Acids, and Bases

### Specifications

- Technology: Magnetostrictive, Dual Float
- Accuracy (Minimum):
  - Product Level: 0.01" (0.25 mm)
  - Water Level: 0.01" (0.25 mm)
  - Temperature: 0.001 °F (0.0006 °C)
- Materials:
  - Shaft: PVDF
  - Floats: 316 SS, Buna-N, Urethane, or PVDF
- Mounting: Minimum 2" (51 mm) opening with bushing or flange mount
- Probe Lengths: 2' – 70' (0.6 m – 21.3 m)
- Temperature Sensing: Available with 1 or 5 Thermistors
- 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: 50 PSIG (345 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
- Model Numbers:
 

MP461S	24"-216"
MP462S	217"-288"
MP463S	289"-600"
MP464S	601"-840"

\* When used in conjunction with the TMS series controllers

Note: Specifications subject to change without notice. 05-05-2021