

## Rigid Magnetostrictive Probe for Inventory Management



### Product Description

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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

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

### Specifications

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- Technology: Magnetostrictive, Dual Float
- Accuracy (Minimum):
 

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|----------------|----------------------|
| 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)
- Compatible With: TMS2000, TMS3000, TMS4000

### Installation

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

### Certifications/Approvals

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- UL/cUL Approved\*, File #E139464

\* When used in conjunction with the TMS2000/3000/4000 series controllers

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