

## Thank You

Thanks for purchasing an MPI series magnetostrictive level sensor from us! We appreciate your business and your trust. Please take a moment to familiarize yourself with the product and this manual before installation. If you have any questions, at any time, don't hesitate to call us at 888-525-7300.

**NOTE:** Scan the QR code to the right to see the full user manual on your tablet or smartphone. Or visit [www.apgsensors.com/support](http://www.apgsensors.com/support) to find it on our website.



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## 1 Description

The MPI series magnetostrictive level sensor provides highly accurate and repeatable level readings in a wide variety of liquid level measurement applications. It is certified for installation in Class I, Division 1, and Class I, Zone-D hazardous areas in the US and Canada by CSA, and ATEX and IECEx for Europe and the rest of the world.

## 2 How To Read Your Label

Each label comes with a full model number, a part number, and a serial number. The model number for the MPI will look something like this:

**SAMPLE: MPI-RS-ZV-P35B-120-40-A**

The model number correlates with all the configurable options and tells you exactly what you have. Compare the model number to the options on the datasheet to identify your exact configuration. You can also call us with the model, part, or the serial number and we can help you.

You'll also find all hazardous certification information on the label.

## 3 Warranty

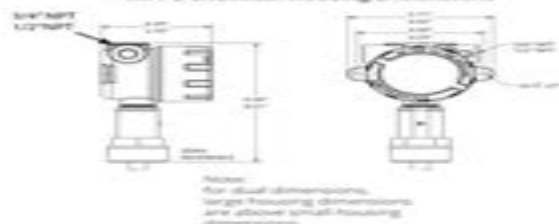
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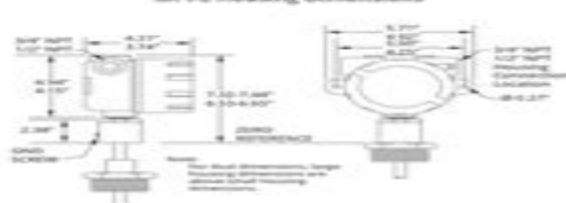
## 4 Dimensions

MPI-E Chemical Housing Dimensions



Note:  
For dual dimensions,  
large housing dimensions  
are shown (small housing  
dimensions).

MPI-E Housing Dimensions



Note:  
For dual dimensions, large  
housing dimensions are  
shown (small housing  
dimensions).

# MPI Series Magnetostrictive Level Sensors Installation Guide

For MPI-E, MPI-E Chemical, and MPI-R Intrinsically Safe



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Rev A 2/2020  
Doc: P0000017-Rev A

## 5 Installation Guidelines & Instructions

The MPI should be installed in an area—indoors or outdoors—which meets the following conditions:

- Ambient temperature between -40°F and 185°F (-40°C to 85°C)
- Relative humidity up to 100%
- Altitude up to 2000 meters (6560 feet)
- IEC 60665-5 Conductive Pollution Degree 1 or 2
- IEC 60503-1 Measurement Category II
- No chemical corrosive to stainless steel (such as  $\text{NH}_3$ ,  $\text{SO}_2$ ,  $\text{Cl}_2$ , etc.) (not applicable to plastic-type stem options)
- Ample space for maintenance and inspection

Additional care must be taken to ensure:

- The probe is kept away from strong magnetic fields, such as those produced by motors, transformers, solenoid valves, etc.
- The medium is free from metallic substances and other foreign matter.
- The probe is not exposed to excessive vibration.
- The float(s) fit through the mounting hole. If the float(s) does/do not fit, it/they must be mounted on the stem from inside the vessel being monitored.
- The float(s) are oriented properly on the stem (See Figure 5-1 below). MPI-E floats will be installed by the factory. MPI-R floats are typically installed by customer.



Figure 5-1

**IMPORTANT:** Floats must be oriented properly on the stem, or sensor readings will be inaccurate and unreliable. Untapered floats will have a sticker or etching indicating the top of the float. Remove sticker prior to use.

ATEX Stated Conditions of Use:

- Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.
- The enclosure is manufactured from Aluminum. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation.

Installation Instructions:

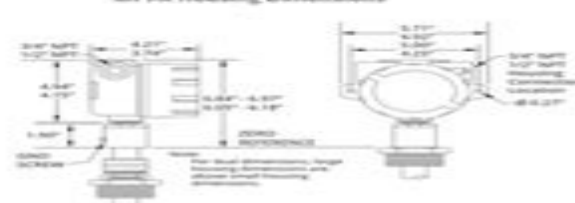
- If your sensor's stem and floats fit through the mounting hole, carefully lower the assembly into the vessel, then secure the sensor's mounting option to the vessel.
- If the floats do not fit, mount them on the stem from inside the vessel being monitored. Then secure the sensor to the vessel.
- For Sensors with float stops, refer to the assembly drawing included with the sensor for float stop installation locations.

Electrical Installation Instructions:

- Remove the housing cover of your MPI.
- Feed system wires into MPI through conduit openings. Fittings must be UL/CSA Listed for CSA installation and IHS-Rated or better.
- Connect wires to MPI terminals. Use crimped terminals on wires, if possible.
- Replace housing cover.

See Sensor and System Wiring Diagrams (section 6) for Modbus wiring examples.

MPI-R Housing Dimensions



# Mpi Install Manual

**M Tight**



## **Mpi Install Manual:**

## Decoding **Mpi Install Manual**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mpi Install Manual**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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