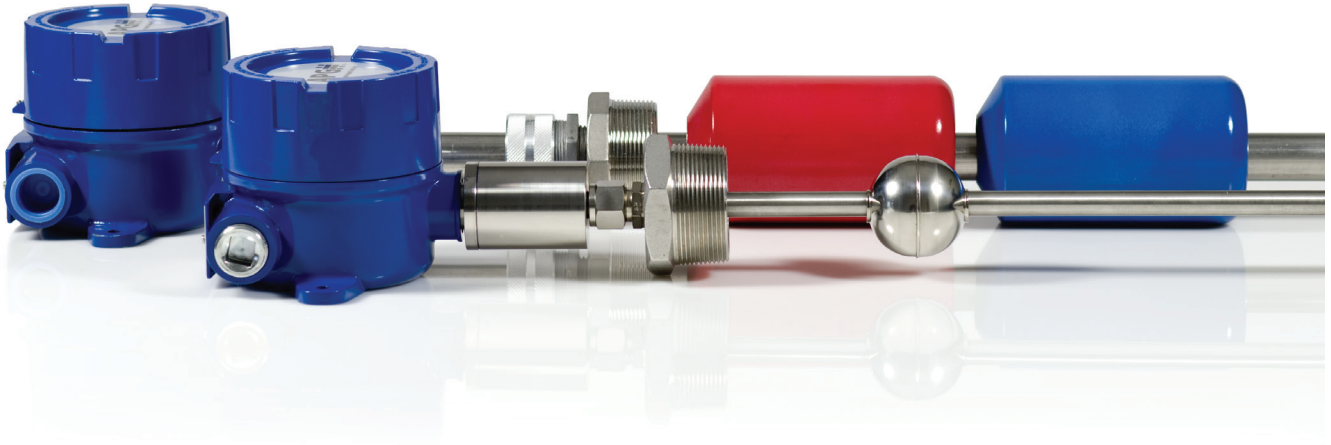


# MPX Magnetostrictive Level Sensor Series



## Liquid Level Sensor

The MPX Series magnetostrictive level sensor provides highly accurate and repeatable level readings in a wide variety of liquid level measurement applications. The MPX-R's large, buoyant and robust float allows it to be used in harsh applications where fouling or buildup might otherwise be of concern. The MPX-E's lighter weight design allows it to be used in applications where space is limited.

### Features

- Class 1, Division 1, Groups C & D, Class 1, Zone 1, Class 1, Zone 2
- Highly accurate and repeatable readings
- 4-20 mA, RS-485 (Modbus RTU) output
- Rugged and reliable, custom lengths up to 25 feet (7.62 m)
- Dual level (interface) measurement
- Tank volume/level, strapping table

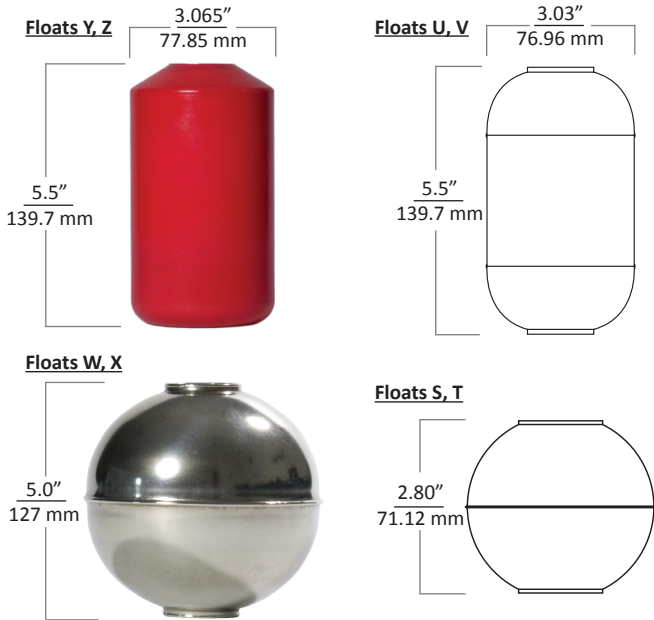
**BINMASTER**

7201 N. 98th St. | Lincoln, NE 68507  
800.278.4241 | 402.434.9102  
Fax: 402.434.9133  
[www.binmaster.com](http://www.binmaster.com) | [info@binmaster.com](mailto:info@binmaster.com)

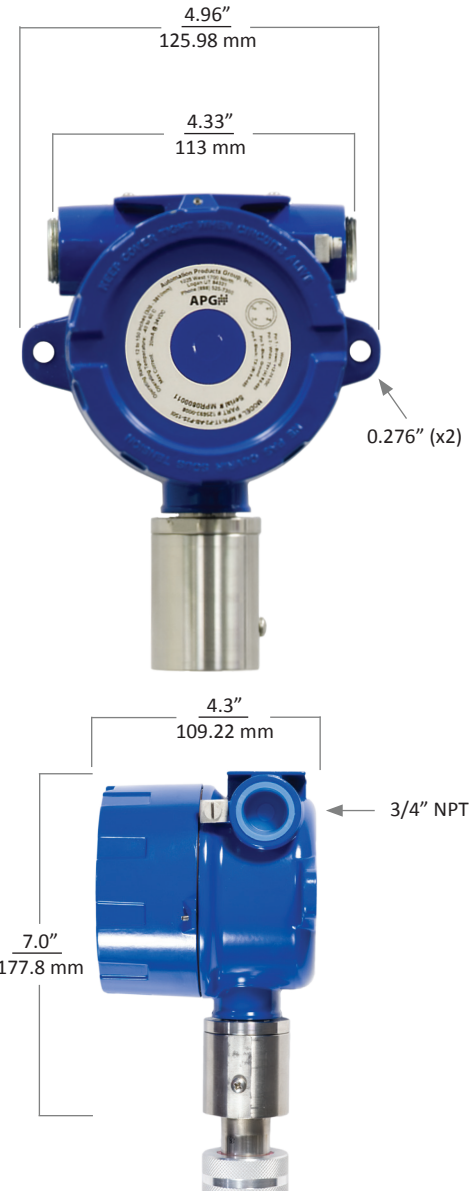
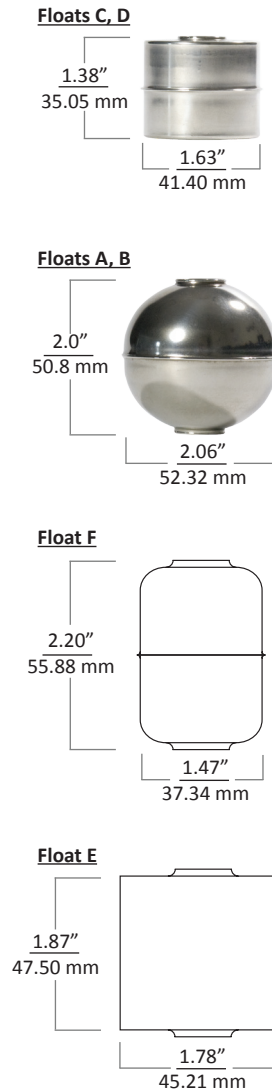


# MPX Specifications

## MPX-R Floats



## MPX-E Floats



## Performance

- Resolution:  
 4-20 mA: 14 bit DAC  
 Modbus: 0.04 in. (1mm)
- Accuracy:  
 ±0.05% of full scale

## Programming

- RS-485: optional RST-6001 USB to RS-485 converter
- 4-20 mA: factory set or optional RST-4100 programming module.

## Connectivity

- Output:  
 Single or dual loop powered 4-20 mA  
 Modbus RTU (RS-485)  
 - Temperature output

## Environmental

- Operating Temperature:  
 -40° - 185°F (-40° - 85°C)
- NEMA 4X, IP65

## Certification

- MPX-E / MPX-R
- NEMA 4X, IP65
  - Class I Division 1 Groups C & D T4 (Ta 85°C)  
 Class I Division 2 Groups C & D T4 (Ta 85°C)  
 Class I, Zone 1; AEx d IIB T4  
 Class I, Zone 2; AEx nA IIB T4  
 Ex d IIB T4  
 Ex nA IIB T4

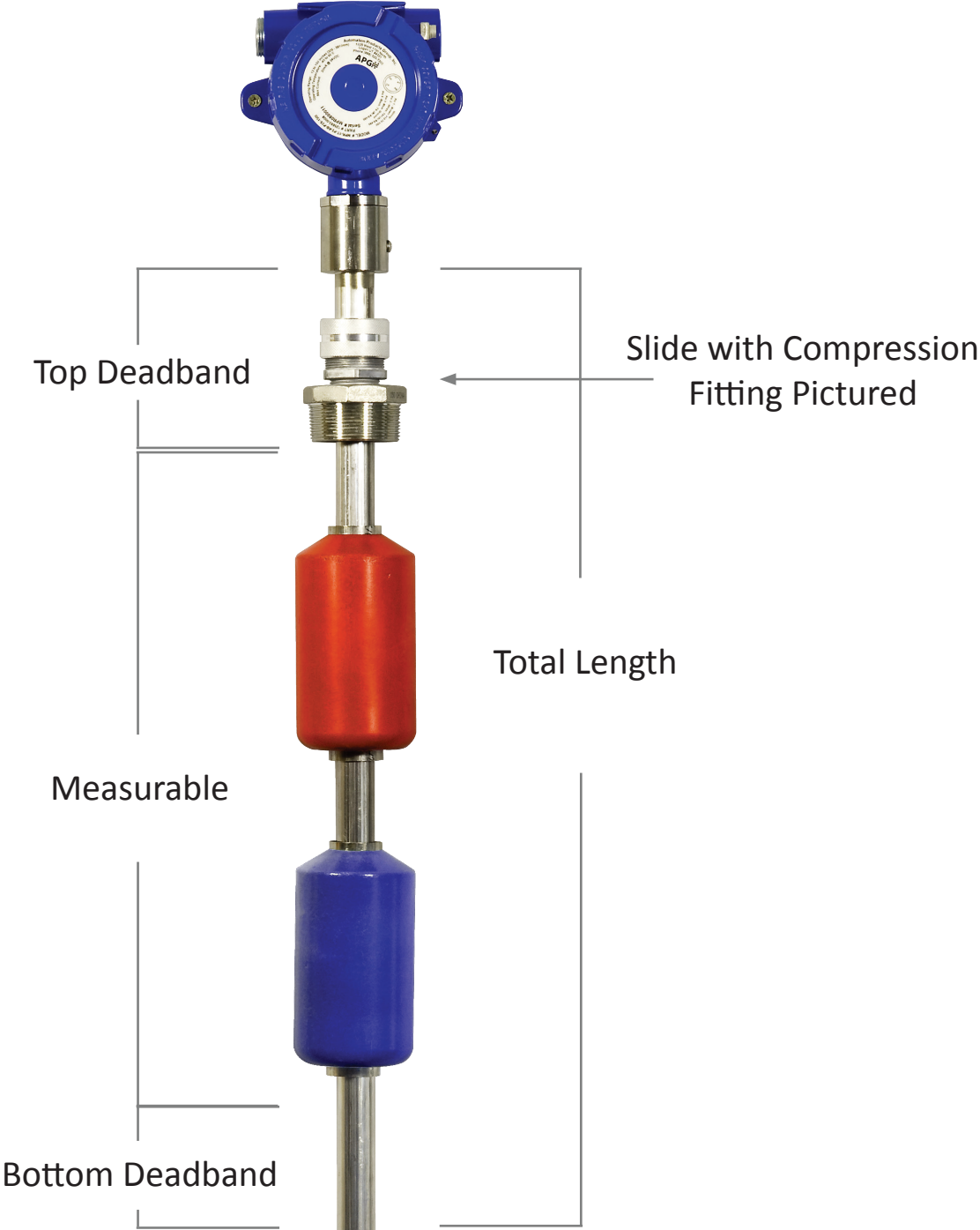
## Electrical

- Electrical Connection: Terminal Block  
 12-24 vdc
- Total current draw:  
 MPX-E: 4-20 mA: (single) 22 mA, (dual) 44 mA  
 MPX-R: 4-20 mA: (single) 22 mA, (dual) 44 mA  
 MPX-E: Modbus (RS-485): 25 mA  
 MPX-R: Modbus (RS-485): 28 mA

## Physical

- Housing: Cast aluminium, epoxy coated
- Stem: 304 SS or 316L SS
- Stem Length:  
 MPX-E: 12 - 153 in. (0.3 - 3.9 m)  
 MPX-R: 4 - 25 ft. (1.22 - 7.62 m)

# MPX Specifications



7201 N. 98th St. | Lincoln, NE 68507  
800.278.4241 | 402.434.9102  
Fax: 402.434.9133  
[www.binmaster.com](http://www.binmaster.com) | [info@binmaster.com](mailto:info@binmaster.com)

