

Explosion Proof and Non-Incendive Magnetostrictive Level Sensors Series: MPX



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. The fiberglass stem of the MPX-G expands the already impressive chemical compatibility of the MPX. And the MPX-F's flexible stainless steel stem allows for accurate measurements in environments that are not straight-forward.

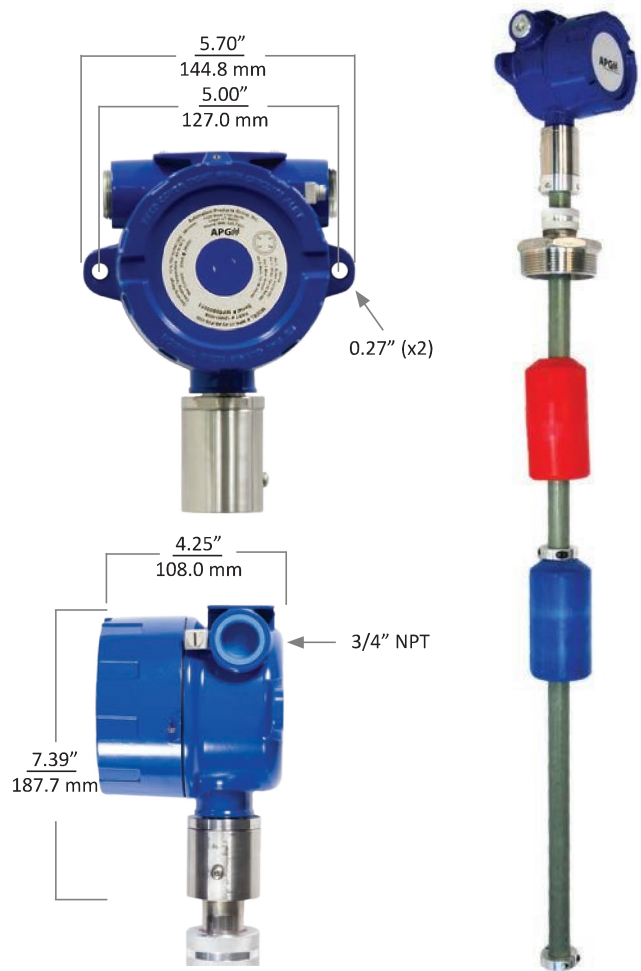
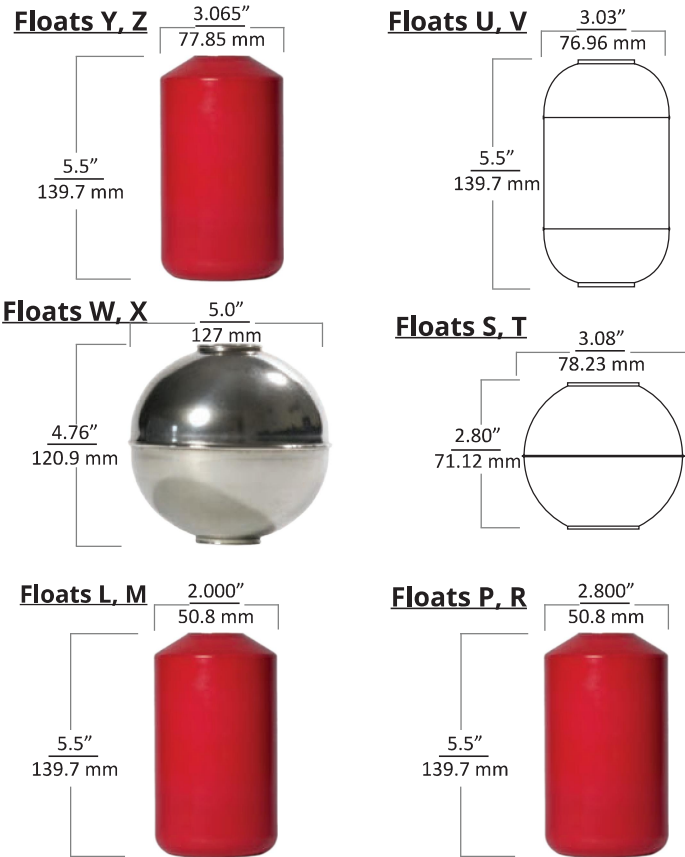
Features

- 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, lengths up to 32 feet (9.75 m)
- Dual level (interface) measurement
- Tank volume/level, strapping table



MPX-G Specifications

MPX-G Floats



Performance

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

Programming

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

Environmental

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

Physical

- Housing: Cast aluminium, epoxy coated
- Stem: 1.0" \varnothing Isophthalic Polyester Resin Fiberglass
- Stem Length: 4 - 20 ft. (1.22 - 6.10 m)
- Float Sleeve (Floats P & R only): .035" thick Titanium 2

Electrical

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

Connectivity

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

Certification

- NEMA 4X, IP65
- CSA:
 - 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

