



RPM



Hazardous Location, Resistive-Chain Level Sensor with 1.25" 316L SS Stem

This float level transmitter is the ultimate in durability. It's commonly referred to in the oil field as a mud probe, one of the most demanding applications in the industry. It's also well suited for extreme sewage level measurement and has PDA approval for marine applications. Each RPM is manufactured to the user's specifications, making it fit to work precisely according to the application requirements.

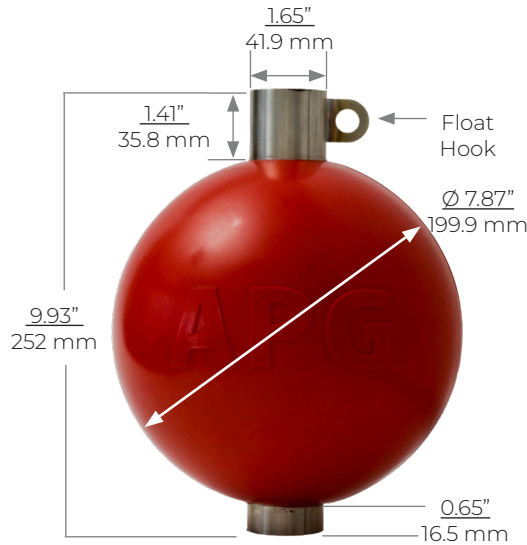
FEATURES

- Continuous level indication
- Rugged 1.25"Ø 316L SS stem
- NEMA 4 & 7 / IP65 cast aluminum housing protects highly reliable electronics
- Anti-stick float design
- Resistive chain or loop-powered 4-20 mA output
- Hazardous location approvals: Explosion Proof, Intrinsically Safe, Non-incendive

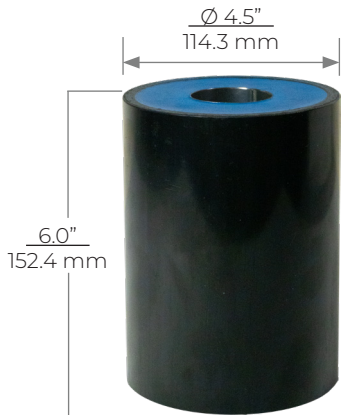
RPM DIMENSIONS



Float B - Polyurethane
(0.65 SG)



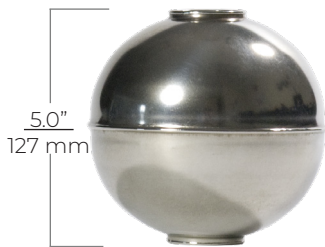
Float F - Polyurethane with 316L Stem
(0.5 SG)



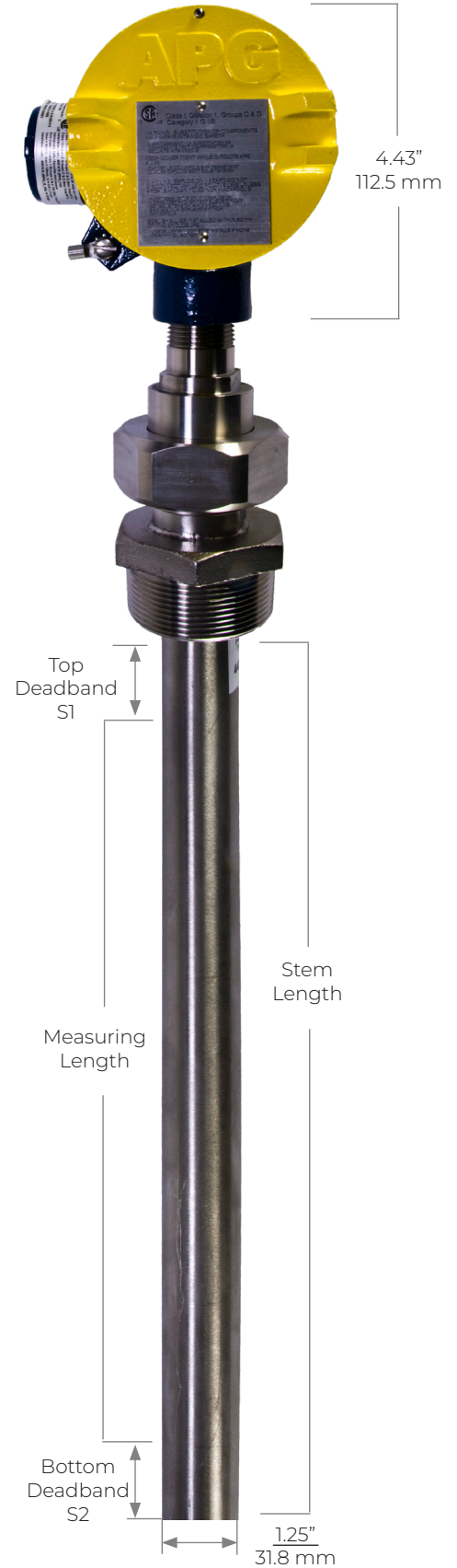
Float Z - ABS/Polyurethane
(0.5 SG)



Float G - Polyurethane
(0.5 SG)



Float S, T- 316L SS
(0.5 SG)



RPM SPECIFICATIONS

PERFORMANCE

- **Resolution:**
High: 0.25 in. (6.4 mm)
Standard: 0.5 in. (12.7 mm)
- **Accuracy:**
± 0.12 in. (±3 mm)

CONNECTIVITY

- **4-20 mA:**
RST-4100 programming module (optional)
APG Settler & Explorer—Online datalogging (optional)

ENVIRONMENTAL

- **Maximum Pressure:**
72.5 psi (5 bar)
- **Enclosure Protection:**
NEMA 4 & 7, IP65

ELECTRICAL

- **Typical Connection: (Resistive Chain Voltage Output)**
High Res: $I = \text{VDC Supply} / (40\Omega * \text{Probe Length in inches.})$
Standard Res: $I = \text{VDC Supply} / (20\Omega * \text{Probe Length in inches.})$

PHYSICAL

- **Housing:** Aluminum Die Cast
- **Cable Entry:** 3/4 in. NPT
- **Stem Material:** 316L SS
- **Stem Length:** 48 to 240 in. (1219 to 6096 mm)
- **Float Materials:**
Polyurethane
316L SS
ABS

CERTIFICATION

- Class I, Division 1, Groups C & D T3 (Ta 40°C)
Explosion Proof
- Ex d, IIB T3
- Class I, Zone 1, AEx d, IIB T3 (Ta 40°C)
Explosion Proof
- Class I, Division 2, Groups C & D T3 (Ta 85°C)
- Class I, Division 2, Groups C & D T3 (Ta 85°C)
Non-incendive
- Class I, Division 1, Groups C & D T3 (Ta 85°C)
Intrinsically Safe
- Ex II 1G Ex ia IIB T3 Ga (Ta 85°C)
4-20 mA
ATEX/IECEX Intrinsically Safe

RPM OUTPUTS WITH TEMPERATURE AND POWER REQUIREMENTS FOR HAZARDOUS LOCATIONS

Output	Intrinsically Safe Class I, Div. 1 Groups C & D T3C	Explosion Proof Class I, Div. 1 Groups C & D T3; Class I, Zone 1 Ex/AEx d, IIB T3	Non-incendive Class I, Div. 2 Groups C & D T3	Class I, Div. 2 Groups C & D, T3.
EX1 - Resistive	—	5-24 VDC Supply, 100 mA max; -40° to 40° C (-40° to 104° F)	5-15 VDC Supply, 100 mA max; Install per dwg 9001415 -40° to 85° C (-40° to 185° F)	5-15 VDC Supply, 100 mA max; -40° to 85° C (-40° to 185° F)
IS - 4-20 mA ISr -20-4 mA	Loop powered 24 VDC; Install per dwg 9001414 -40° to 85° C (-40° to 185° F)	12-24 VDC Supply -40° to 40° C (-40° to 104° F)	12-24 VDC Supply Install per dwg 9001415 -40° to 85° C (-40° to 185° F)	12-24 VDC Supply -40° to 85° C (-40° to 185° F)
AIS - 4-20 mA, ATEX/IECEX approvals	Loop powered 24 VDC; Install per dwg 9001414 -40° to 85° C (-40° to 185° F)	—	—	—

RPM ACCESSORIES

Please order separately, by part number.

Description	Part Number
Float Stop	135414
Bottom bracket	135396
Right angle bracket pipe clamp	125603
Red cylindrical polyurethane float (0.65 SG, 8.65" H, 4" OD, 1/2" resolution)	125767
Red spherical polyurethane float with designated logo (0.5 SG, 8" OD, 1/2" resolution)	125665
316 SS spherical float (0.5 SG, 5" OD, 1/2" resolution)	125705
Blue spherical polyurethane float, no logo (0.5 SG, 8" OD, 1/4" resolution)	125679
Black and blue cylindrical polyurethane/ABS float (0.5 SG, 6" H, 4.5" OD, 1/4" resolution)	125682
316 SS spherical float (0.5 SG, 5" OD, 1/4" resolution)	125704
Settler	125422-000x

SETTLER

Your Gateway to Smarter Monitoring

Settler, APG's next remote monitoring gateway, makes getting real-time level data easier than ever.

Settler seamlessly connects Modbus and 4-20 mA sensors—transmitting encrypted data securely to Explorer, APG's cloud-based interface. View tank and well levels anytime, anywhere, with reliable Ethernet connectivity and robust data security powered by MQTT with AES (Advanced Encryption Standard). Plus, with over-the-air (OTA) firmware updates, your system stays up to date without hassle.

Designed for general-purpose environments, Settler is not intended for use in hazardous areas.

Explorer makes monitoring simple. Access real-time readings, enable datalogging, and set up alarms so you're always informed of critical changes—right from your smartphone, tablet, or desktop.

Save time, reduce costs, and gain peace of mind with remote monitoring powered by Settler and Explorer. Contact us today to learn more or visit apgsensors.com/settler-remote-monitoring-gateway/.

