

Auto-Set™ Remote Radio Frequency (RF) Capacitance Point Level Indicator

APPLICATION

The Auto-Set remote series RF capacitance point level monitors are designed for high temperature (482 °F / 250 °C) or vibration applications to detect high, intermediate, or low levels of liquids, powders and free flowing granular solids stored in tanks, bins, silos or other containers.

METHOD OF OPERATION

The Auto-Set remote has a din rail mounted remote control unit with simple push-button calibration. The remote control unit connects to the transducer, which is mounted in a suitable enclosure close to the probe. For applications below 122 °F (50 °C), the transducer can be mounted within the polypropylene probe housing. For high temperature applications, the transducer will be mounted in a separate enclosure away from the probe (see back).

Once the Auto-Set remote is calibrated for the application it never has to be re-calibrated. Data is stored in non-volatile memory so it is not affected by power loss.

A four digit LED display shows set values for uncovered, covered and trip settings, allowing simple set-up and adjustment. A set of voltage-free changeover relay contacts are actuated when the level of the material in the container reaches the probe. The unit incorporates a unique power shield which automatically compensates for material build-up around the probe and on the sides of the container, preventing false indication.

The Auto-Set remote is top or side mountable with stainless steel probes lengths up to 33 feet long, and can be used with container walls up to 3 inches thick.

FEATURES

- ▶ High and Low Level Indication
- ▶ High Temperature & Vibration Applications
- ▶ Multi-Voltage (110/240 VAC or 24 VDC)
- ▶ Fail-Safe
- ▶ Push Button Calibration
- ▶ Digital Display & Internal Timer
- ▶ 3 in. to 33 ft. Probe Lengths
- ▶ Power Shield Compensates for Material Build-Up on Probe

PART NUMBERS/ACCESSORIES

- ▶ ATSREM2V0 Auto-Set Remote Control Unit
- ▶ ATSTRAN1 Auto-Set Remote Transducer
- ▶ ATSREMB Transducer Enclosure
- ▶ AREM120 Polypropylene Probe (248°F / 120°C)
- ▶ AREM250 PEEK Probe (482°F / 250°C)
- ▶ EX03 316 Stainless Steel 3-3/8 in. Probe
- ▶ EX12 316 Stainless Steel 8 in. Probe
- ▶ EX24 316 Stainless Steel 20 in. Probe
- ▶ EX36 316 Stainless Steel 32 in. Probe
- ▶ EX48 316 Stainless Steel 44 in. Probe (M/F Ends)
- ▶ WP 304 Stainless Steel Probe Wire
- ▶ SMP Mounting Plate (Stainless Available)

Detailed specification, wiring diagrams and installation/operating instructions available upon request.



Remote Control Unit



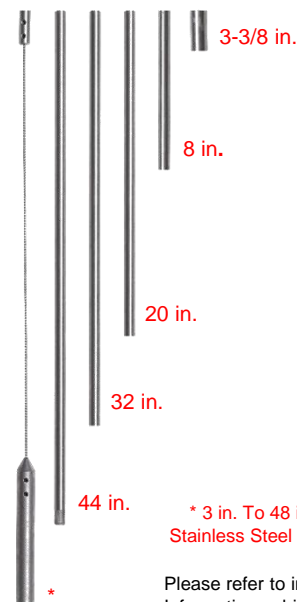
PEEK Probe
(High Temperature)



Polypropylene Probe



ATEX Approved
Versions Available



Transducer
Enclosure
(ATSREMB)

SMP
Mounting
Plate

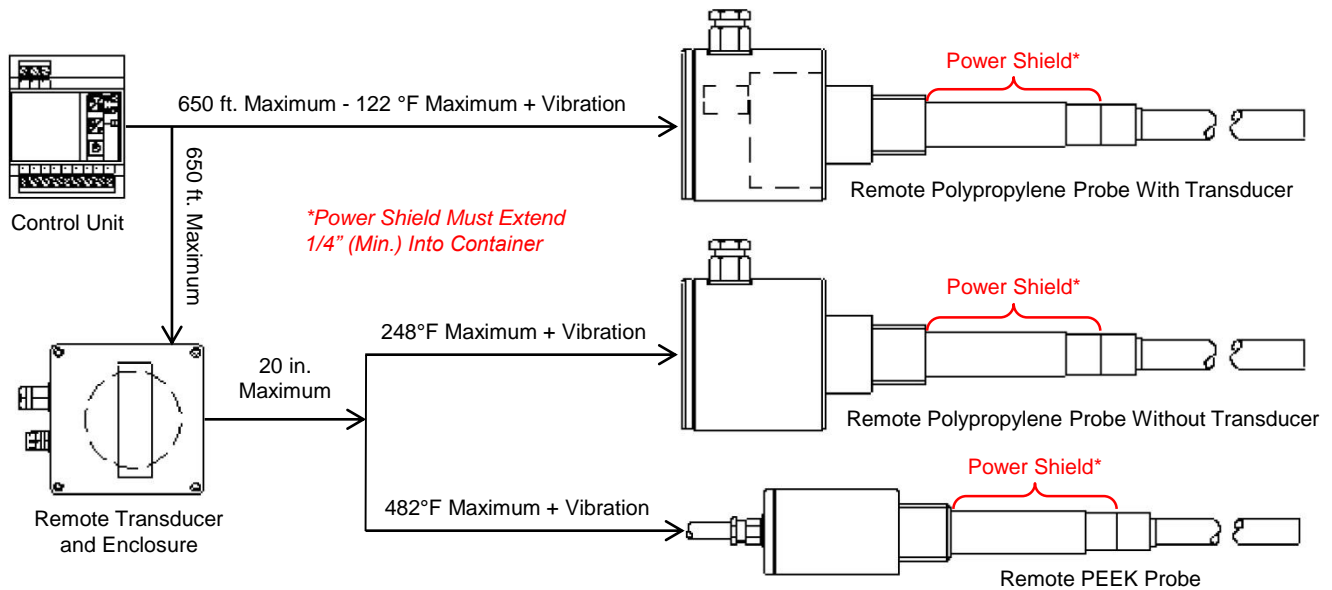


* 3 in. To 48 in. Solid Stainless Steel Probes With
Stainless Steel Wire Probe Lengths Up To 33 Ft. Long

Please refer to instruction manual for correct installation.
Information subject to change or correction. Dec 2015

Auto-Set™ Remote

BETTER BY DESIGN



OTHER
MODELS
AVAILABLE



Standard Auto-Set with Power Shield for Walls up to 14.5 Inches Thick.

Flush Probe Version (1 to 2 inch Insertion) for Tight Fitting Areas.

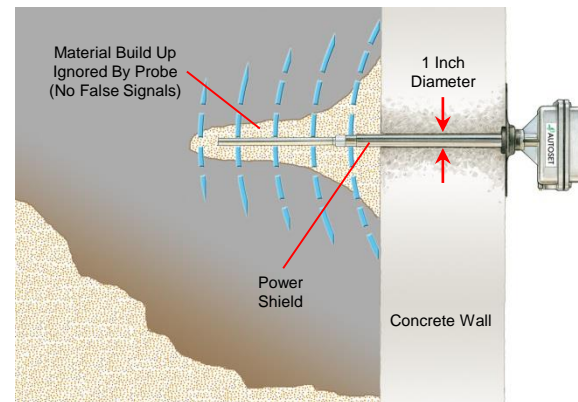


TECHNICAL SPECIFICATIONS

Auto-Set™ Remote RF Capacitance Point Level Indicator

Remote Control Unit	
Power Supply:	120/240 VAC or 24 VDC (Universal Supply)
Operating Temperature:	5 °F (-15 °C) to 122 °F (50 °C)
Output:	1 Set of Voltage-Free Changeover Relay Contacts
Fail Safe (Selectable):	Low Level (Energized When Covered) High Level (Energized When Uncovered)
Calibration:	Push Button (With or Without Material)
LED Display:	Measured Values (Covered, Uncovered, Trip)
LED Indicator:	Material Detection
Time Delay:	0 - 128 Seconds
Protection:	IP44
Approvals:	CE, ATEX (Available)
Remote Probes	
Maximum Temperature:	248°F (120°C) - Polypropylene Probe 482°F (250°C) - PEEK Probe
Material:	Polypropylene & Stainless Steel PEEK & Stainless Steel
Mounting Thread:	1-1/4 in. NPT
Protection:	IP65 - NEMA 4
Approvals:	CE, ATEX (Available)

POWER SHIELD OVERVIEW



The power shield creates a barrier and enables the unit to ignore material built up on the probe, preventing false readings. The Auto-Set remote probes have 3-7/8 inch power shields, and can be used with walls up to 3 inches thick.

Please refer to instruction manual for correct installation. Information subject to change or correction. Dec 2015

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