

# Auto-Set™ Flush Probe

BETTER BY DESIGN

## Auto-Set™ Flush Probe Radio Frequency (RF) Capacitance Heavy Duty Plug Switch

### APPLICATION

The Auto-Set flush probe is a low profile RF capacitance plug switch level monitor designed for tight fitting applications to detect levels of liquids, powders and free flowing granular solids in conveyors, bucket elevators and surge hoppers.

### METHOD OF OPERATION

The Auto-Set flush probe incorporates simple push-button calibration with microprocessor enable/disable switch for total protection of stored values. Once the Auto-Set 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 solid state electronics are housed in a weatherproof, flame retardant, glass-reinforced nylon enclosure.

The Auto-Set flush probe is top or side mountable, and the probe inserts 1 to 2 inches into a tank or spouting, has no moving parts and is made from 1/4 inch 316 stainless steel plate. It can be used with container walls up to 1 inch thick.

### FEATURES

- ▶ High and Low Level Indication
- ▶ Multi-Voltage (AC / DC)
- ▶ Low Profile Applications
- ▶ 316 Stainless Steel Probe
- ▶ Fail-Safe
- ▶ Push Button Calibration
- ▶ Digital Display & Internal Timer
- ▶ Power Shield Compensates for Material Build-Up on Probe

### PART NUMBERS/ACCESSORIES

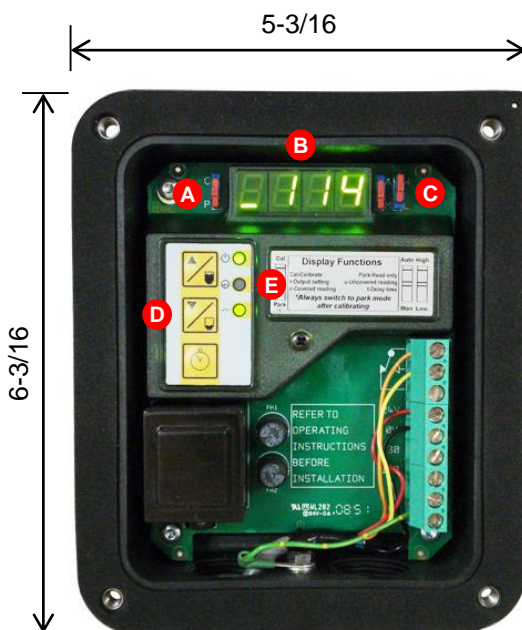
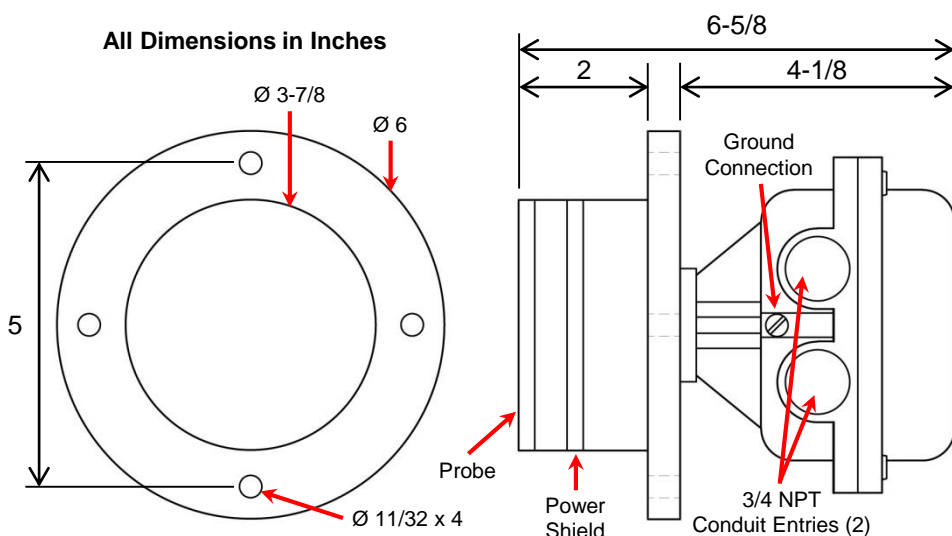
- ▶ ATS7V0FC-FP Auto-Set Flush Probe



ATEX Approved  
Versions Available

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## OTHER MODELS AVAILABLE



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

Remote Version for High Temperature (482°F) and Vibration Applications.



Auto-Set Remote

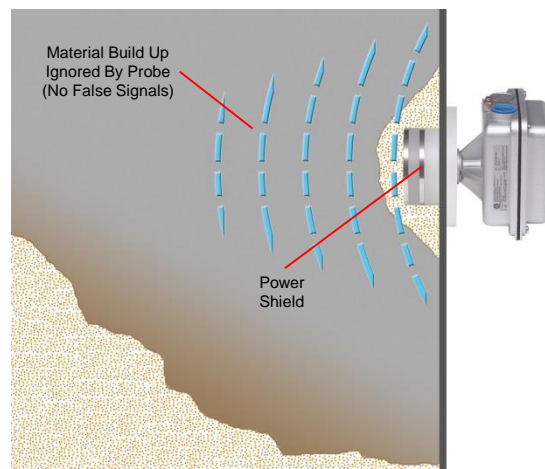
- A - Calibrate / Park Switch
- B - LED Display
- C - Auto / Manual Calibration Switch
- High / Low Failsafe Switch
- D - Sensitivity and Timer Buttons
- E - Power, Calibrating & Output LEDs

## TECHNICAL SPECIFICATIONS

### Auto-Set™ Flush Probe RF Capacitance Plug Switch

ATS7V0FC-FP	
Power Supply:	120/240 VAC or 24 VDC (Universal Supply)
Operating Temperature:	-25° F (-32° C) to 160° F (71° C)
Sensitivity:	0.5 Pico farad
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 - 60 Seconds
Power Shield:	1/4 Inch
Probe:	Stainless Steel - 3-7/8 Inch Diameter
Conduit Entry:	3/4 in. NPT (2)
Enclosure	Flame Retardant, Glass Reinforced Nylon
Protection:	IP65, NEMA 4
Approvals:	CSA Class II Div. 1 Groups E, F, G CE and 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 flush probe can be used with walls up to 1 inch thick.