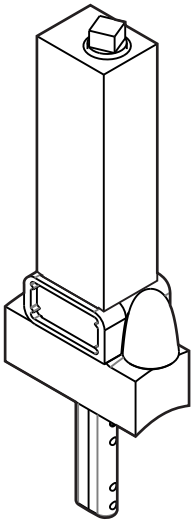
# Flowmeter Sensor Installation Instructions
# F-300S

SKU: 71010-349

**New F-300N ships ready to work with optional flow switch / flow rate sensor.**

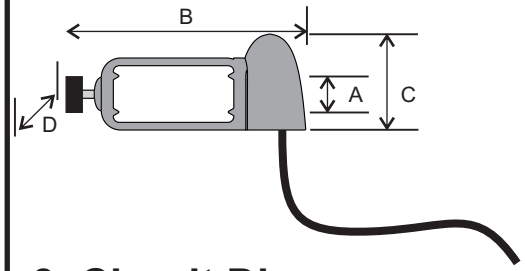
How do you know if your model F-300 is compatible for use with flow sensor?
Simple, if your F-300 has a bright red float, then your meter is compatible with the F-300S flow sensor.



## 1. Specifications

| | |
|---|---|
| **Voltage** | 100 VAC or VDC Abs. Max. |
| **Current** | 0.250 Amp AC/DC Abs. Max. |
| **Power** | 5 Watts Max. |
| **Contact Configuration** | N.O. |
| **Form** | A, SPST |
| **Housing Material** | PVDF, Black |
| **Lead type** | Red & Black, #24 Gage, 5 feet |

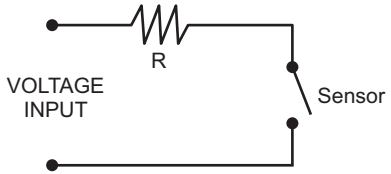
## 2. Dimensions




Approx. trigger range:
Contact will trigger (close) when magnetic float present (within range A).

| | |
|---|---|
| A | 0.26” (6.6mm) |
| B | 2.8” (71mm) |
| C | 1.3” (33mm) |
| D | 1.3” (33mm) |

## 3. Circuit Diagram




High surge currents may cause damage to the sensor and significantly reduce its life, the following circuit is, therefore, highly recommended.

| **VOLTAGE @ Max AMP. (V)** | **Minimum R (OHM) ± 20%** |
|---|---|
| 30 DC/AC @ .033 AMP. | 1000 |
| 24 DC/AC @ .040 AMP. | 680 |
| 12 DC/AC @ .083 AMP. | 150 |
| 6 DC/AC @ .166 AMP. | 36 |
| 4 DC/AC @ .250 AMP. | 16 |

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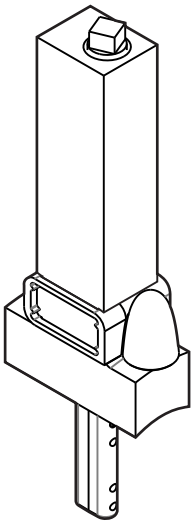


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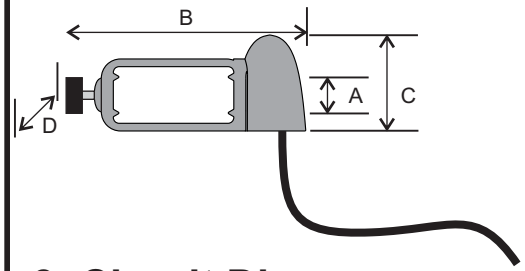



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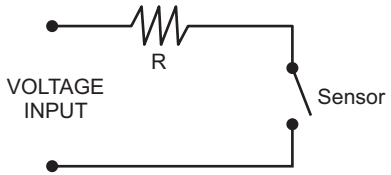



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# 4. Installation

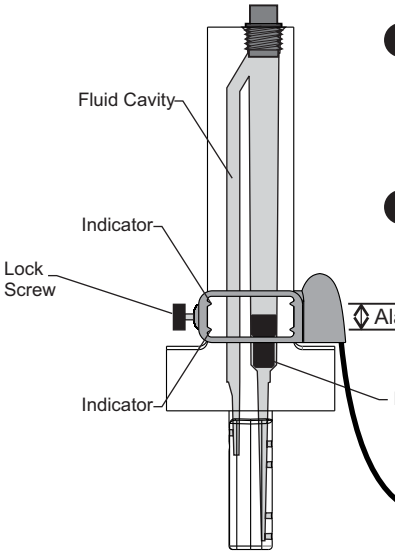
Lock Screw (Thumb Screw) should be loosened (counter clockwise) so the sensor can slide with ease over the top of the F-300 flowmeter. Slide to desired location on flowmeter body. Secure with Lock Screw by tightening (rotate clockwise).

Sensor contact is ***closed*** when top of float is inside the Alarm Trigger Zone (Hysteresis)

Sensor contact is ***open*** when top of float is outside of the Alarm Trigger Zone

4.1) Flow Switch: See *Figure 1*
4.1) Flow Rate: See *Figure 2*

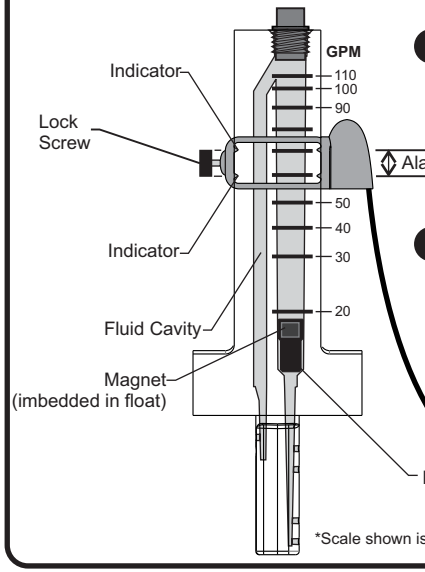
## Flow Switch *Figure 1*




If float leaves “Alarm trigger zone,” a built-in contact closure switch can remotely turn on/off a chemical pump and/or other external devices.

With sensor installed all the way down, the switch can detect a flow / no flow situation.

## Flow Rate *Figure 2*




With flow rate sensor installed at targeted flow rate, the sensor can detect if your flow is within desired range.

Flow Sensor can be moved to any position along scale. Tighten Lock Screw with fingers to secure position.

*Scale shown is for example only. Refer to your F-300 model for actual scale.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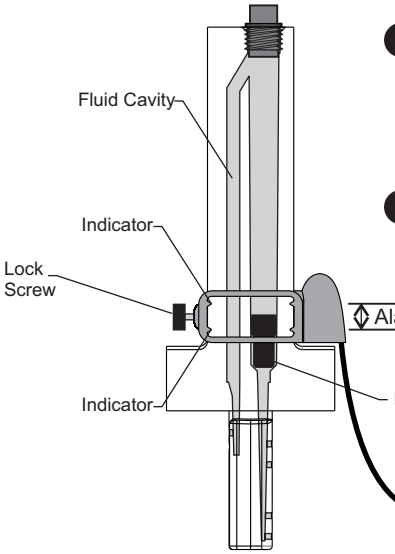



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