

BABBITT LS2000 Level Switch

FEATURES

- Simple installation and calibration
- Solid state; no moving parts
- 10 amp SPDT relay output
- Fail-safe electronics
- Explosion Proof Housing Standard

APPLICATIONS

- High or low level alarms
- Sump control
- Oil / water interface detection
- Dry pump protection

LIQUIDS

- Water / Wastewater
- Acids / Caustics
- Chemicals / Oils
- Slurries

DRY SOLIDS

- Flour / Grains
- Powders
- Plastics
- Sand / Cement



GENERAL OPERATION

The LS2000 can measure virtually any liquid or dry bulk solid. It can even sense the difference between oil and water. The proprietary radio frequency (RF) circuit has a wide tuning range and exceptional temperature stability.

When the probe is installed, it is calibrated in the absence of material touching the probe. When the desired product comes into contact with the probe, the relay switches giving the desired output.

CONSTRUCTION

The probe is made of a solid 316 stainless steel rod; the standard insulator is made from Ultra-High Molecular Weight Polyethylene (UHMWPE) – Teflon optional. UHMWPE has high abrasion resistance, while the optional Teflon insulator operates at higher temperatures. Standard seals are double Viton “O” rings on the probe and insulator. All of the electronics are housed in an explosion proof cast aluminum housing.

CHOICE OF PROBE DESIGNS

The LS2000 offers 2 standard probe designs. Our **standard stainless steel rod** is available in a variety of lengths and is suited for liquids or bulk solids. These probes can be coated with Halar in lengths up to 60 inches.

The **blind-end probe** has no visible probe; the insulating material completely covers the sensing probe, making it a good choice for applications where a wet material build-up may foul a horizontally mounted probe. This is also a preferred probe for alarming when a line feeding a pump runs dry.

Flanged process connections and other materials of construction are available.

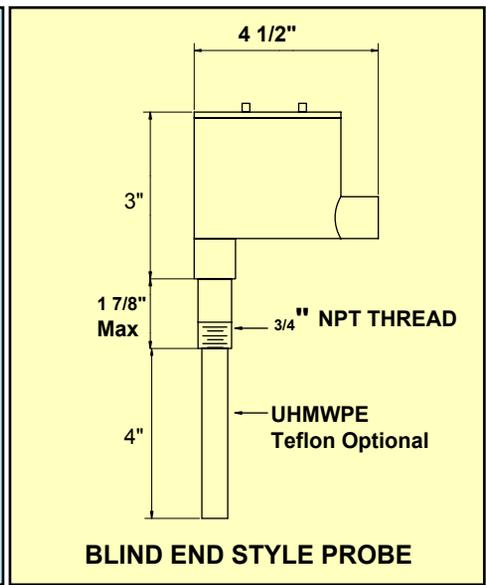
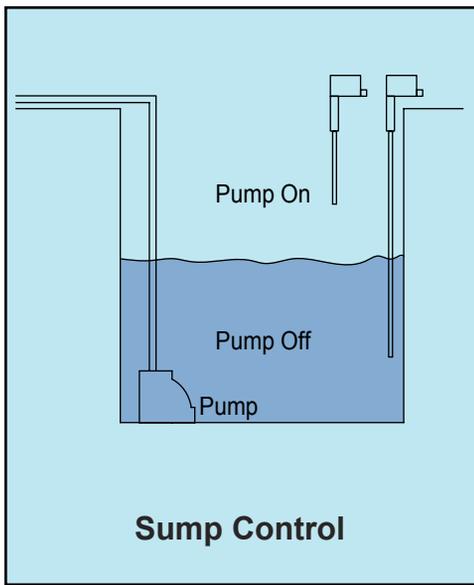
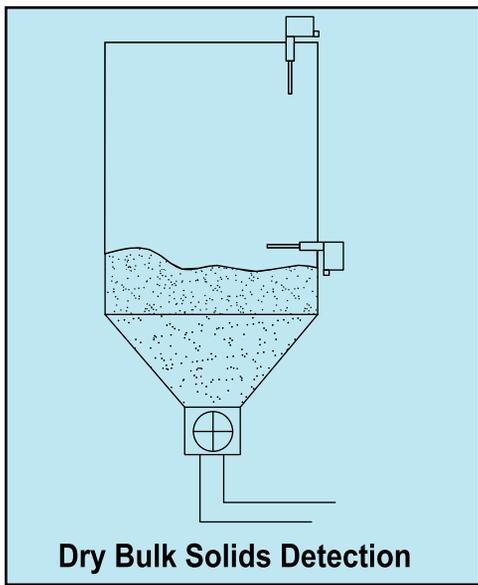
SIMPLE CALIBRATION

All of the necessary calibration indicators are on-board so all you need to calibrate the LS2000 is a small screwdriver. The modular electronics make troubleshooting and repair a snap. *The entire unit is backed by our two year warranty.*

BABBITT INTERNATIONAL

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SPECIFICATIONS:

ELECTRICAL

Power (+/-15%): 115 VAC, 60Hz, 2 watts – or - 24 VDC @ 32 mA maximum

Output: 1 Form C contact (SPDT) relay
 10 amp resistive at 125 VAC
 8 amp @ 250VAC
 5 amp @ 30VDC

Failsafe: Field selectable
 High or Low level

RF Frequency: Approx. 1.3 MHz

ENVIRONMENTAL

Temperature: Probe with:
 UHMWPE insulator -30°F to 180°F
 Teflon insulator -30°F to 280°F

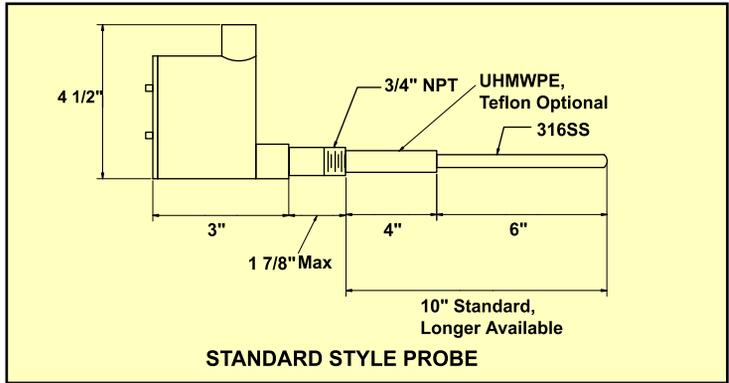
Pressure: 300 psi @ 75°F Note: at 180°F, pressure should not exceed 15psi.

Hazardous Area: Housing is CSA and UL approved for Class I, Div. 1, Groups C & D; Class II, Groups E, F, & G; Class III NEMA 4

Specifications are subject to change without notice.

WARRANTY The entire unit is warranted for two years against defects in material or workmanship. See owners manual for complete details.

Distributed By:



ORDERING INFORMATION:

Standard Probe Style:

LS2000 – 115VAC – S – 10"

Model |
 Supply Voltage |
 "S" – 316 Stainless Steel Probe |
 "H" – Halar Coated Probe |
 Probe length in inches |

Blind-end Probe Style:

LS2000 – 115VAC – U – 4"

Model |
 Supply Voltage |
 "U" – UHMWPE |
 "T" – Teflon |
 Probe length in inches |
 (4" standard – call for other lengths)

APPLICATION PERFORMANCE GUARANTEE
 If within 60 days of purchase, the LS 2000 does not perform according to our claims and was properly installed in an approved application that does not exceed the stated performance specifications, the LS 2000 may be returned for full credit.