

BABBITT LS2100 2-WIRE Level Switch

FEATURES

- Simple installation and calibration
- Solid state; no moving parts
- Fail-safe electronics
- Explosion proof housing standard

APPLICATIONS

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

LIQUIDS

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

DRY SOLIDS

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



LOOP POWERED

GENERAL OPERATION

The LS2100 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 milli-amp signal on the 24 VDC Loop changes to indicate level.

The 2-Wire design makes the LS2100 perfect for use with PLC'S and DCS systems. Often existing instrument wire pairs can be used.

CONSTRUCTION

The probe is made of a solid 316 stainless steel rod; the standard insulator is made from Teflon; the 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 DESIGN

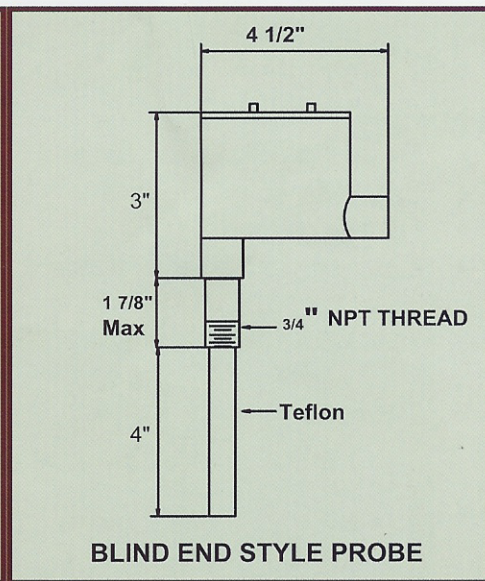
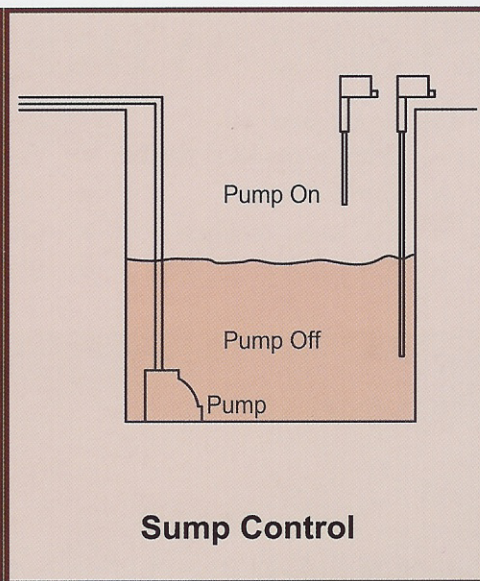
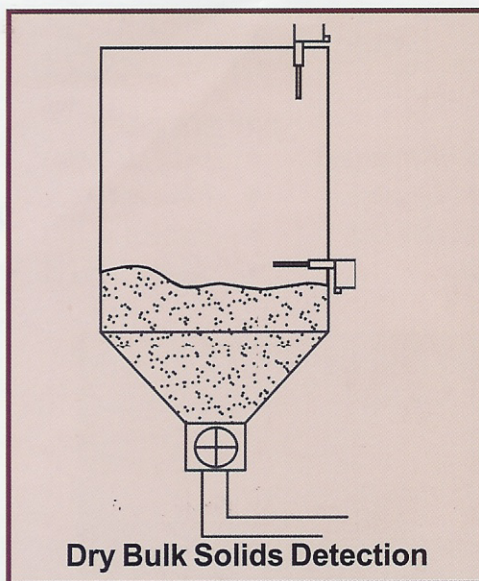
The LS2100 offers 2 standard probe designs. Our **standard stainless steel rod** is available in a variety of lengths and is suited for liquids or bulk solids. These probes can be coated with Halar in lengths up to 60 inches.

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.

SIMPLY CALIBRATION

All of the necessary calibration indicators are on-board so all you need to calibrate the LS2100 is a small screwdriver. The modular electronics make troubleshooting and repair a snap. *The entire unit is backed by our two year warranty.*



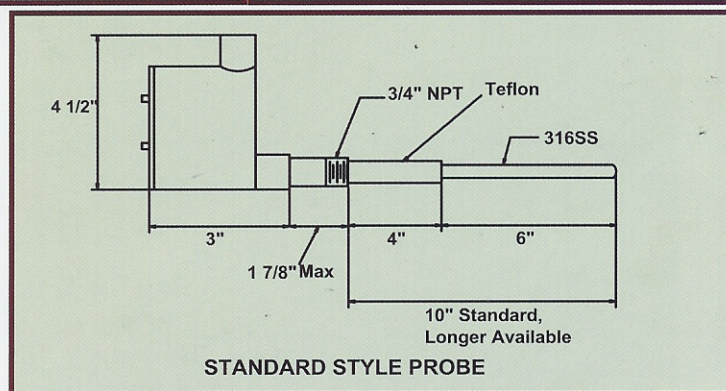
SPECIFICATIONS:

ELECTRICAL

Power: Loop Powered 16-32 VDC

Output: Normal - 8mA
Alarm - 16mA
Output is reversible

RF Frequency: Approx. 1.3 MHz



ENVIRONMENTAL

Temperature: Probe: -30°F to 400°F
Electronics: -30°F to 180°F

Pressure: 1000 psi @ 75°F

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:

LS2100 - 24 VDC - S - 10"

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

Blind-end Probe Style:

LS2100 - 24 VDC - T - 4"

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

APPLICATION PERFORMANCE GUARANTEE

If within 60 days of purchase, the LS 2100 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 2100 may be returned for full credit.