

The LS 2000 is the one level switch for all material measurement. Improved performance over floats, conductance probes, capacitance switches, rotating paddles and vibrating switches.

FEATURES

- Selectable fail-safe electronics
- Ignores significant product build-up
- Solid state, no moving parts
- Simple installation and calibration
- Modular electronics easily replaced
- Probe length easily field modified
- Explosion proof housing standard
- Rugged construction handles the roughest products

LIQUIDS

Wastewater
Oils
Acids
Slurries
Fuels
Caustics

DRY/SOLIDS

Fly Ash
Cement
Plastics
Flour
Powders
Sand
Grains
Carbon Black
Wood Chips

INTERFACES

Oil/Water
Foam/Liquid

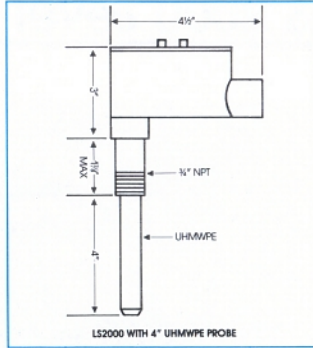
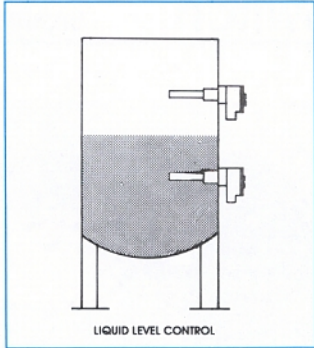
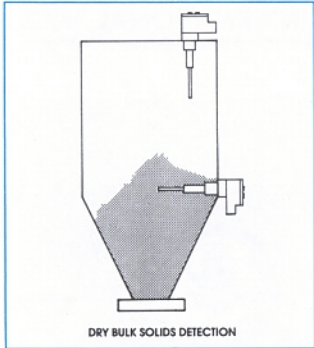
GENERAL OPERATIONS The LS 2000 can measure virtually any liquid, dry material or interface of electrically conductive or non-conductive products. The proprietary radio frequency (RF) balanced impedance bridge has exceptional temperature stability, thus eliminating the need to recalibrate the unit from season to season.

When the probe is installed, it is calibrated in absence of material touching the probe. When the desired material comes in contact with the probe, the LS 2000 is activated and gives the desired output.

SIMPLE CALIBRATION All the necessary calibration indicators are on-board so all you need to calibrate the LS 2000 is a small screwdriver.

Fail-safe electronics provide peace of mind. The modular electronics make trouble shooting and repair a snap. **The entire unit is backed by our two year warranty.**

CONSTRUCTION The probe is made of solid 316 stainless steel rod; the insulator is made of UHMWPE (Ultra-High Molecular Weight Polyethylene). UHMWPE has excellent abrasion and impact resistance. The seals are made with Viton "O" rings. All the electronics are housed in a cast aluminum explosion proof enclosure.



SPECIFICATIONS

ELECTRICAL

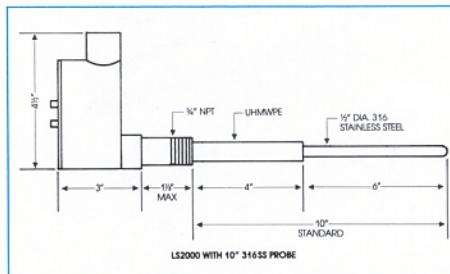
- Power: 120 VAC ($\pm 15\%$) 60 Hz, 2 watts, standard (24 VDC optional)
- Output: 1 Form C contact SPDT relay, 10 amp resistive at 125 VAC, 8A250VAC, 5A30VDC
- Fail Safe: Selectable high or low level
- RF Frequency: Approximately 1.3 MHz

ENVIRONMENTAL

- Hazardous Area: Class I, Group C, D, Class II, Group E, F, G, Class III
- Temperature: Probe: -30°F to 180°F
Electronics: -30°F to 170°F
- Pressure: Probe 250 psi @ 75°F Note: at 180°F pressure should not exceed atmosphere.
- Construction: Probe: All wetted parts 316 SS, UHMWPE and Viton.
Electronics: Housed in cast aluminum explosion proof enclosure.

Specifications subject to change without notice.

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.



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

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