

HiTECH

Technologies, Inc.

SuperSwitch™ LL-108 Cryogenic Temperature Liquid Point Level Switch

Model LL-108

SuperSwitch™ Ultrasonic Sensing Technology

APPLICATIONS

- ◆ LNG, Liquid Oxygen
- ◆ Compressors
- ◆ Phase Separators
- ◆ Pipe Lines
- ◆ Pump Protection
- ◆ Storage Tanks
- ◆ Hydraulic Supply Lines

ADVANTAGES

Temperature as low as -400° F (-240° C)

1000: 1 wet to dry ratio

316 Stainless Steel Sensor

Hermetically Sealed

Epoxy painted enclosure

Miniature, encapsulated electronics

No calibration or special installation



The SuperSwitch™ LL-108 Liquid Level Switch is the ideal solution to a host of liquid level sensing applications at cryogenic temperatures.

It uses proven ultrasonic technology to operate in virtually any liquid, regardless of viscosity or aeration. Its small size and standard 3/4" NPT mounting make it the perfect choice for new or existing applications.

The LL-108 consists of a 316SS sensor and an integral miniaturized, encapsulated electronic unit which is mounted in a cast aluminum, explosion-proof, watertight enclosure.

It can be either integral or remotely mounted.

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SPECIFICATIONS

Repeatability:

2 mm typical

Delay(On):

0.5 seconds (typical)
varies with cryogenic temperature

Input Power:

115V or 230V 50/60 Hz AC standard;
12 or 24V DC optional

Outputs:

10A DPDT relay standard,
8.0±1.0mA-dry, 20.0±1.0mA-wet

Temperature Range:

Sensor -400°F to +160°F (-240°C to 71°C)
Electronics -20°F to +170°F (-29°C to 77°C)

Housing:

Cast Aluminum, Explosion-proof & Watertight
NEMA 4 / NEMA 7 , Class I, Group C & D,
Class II, Group E., F, & G, Class III, Div. 1 & 2

Sensor Material:

316SS (Up to 550° F),
Titanium (Up to 750° F)

Pressure:

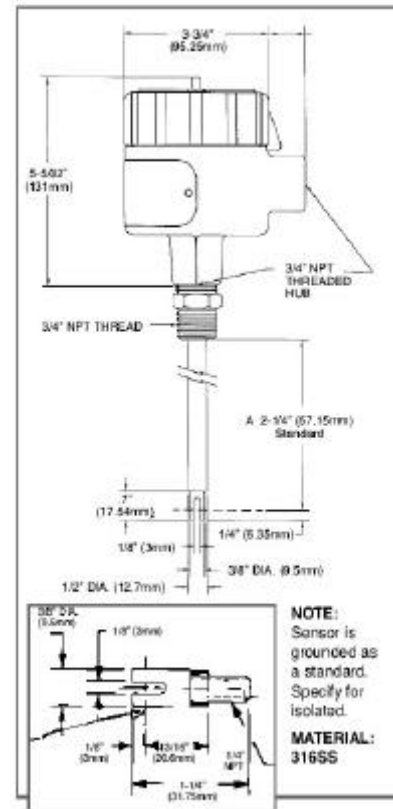
Operating: Up to 1000 psig (68.9 Bars)

Mounting:

3/4" NPT standard
1/4" NPT or Flange Mounting available

Weight:

1 lb. (.9kg) approximate



PERFORMANCE GUARANTEE

Since 1986, every instrument sold by HiTECH has been guaranteed to perform in the application it originally was engineered and recommended for. Our company policy remains the same, every product sold comes with a written performance guarantee.

Should the equipment be unable to perform satisfactorily in your application and we are not able to correct the problem, we will accept the instrument in return and issue full credit. This performance guarantee is valid for 60 days. Thereafter, our standard limited two years factory warranty goes into effect.