



CAPACITIVE OIL/FUEL LEVEL SENSORS

Patent Pending

FEATURES

- Analog or digital output
- Linear or non-linear output
- Infinite resolution
- Configurable to vehicle or application
- Robust designed for heavy shock and vibration
- Wide temperature operating range
- Vehicle attitude sensor



The model 3000 Fluid Level Sensor utilizes capacitive technology to create an electrical signal that is proportional to the fluid/air ratio of any oil or fuel within the concentric tubes of the sensor. The Fluid Level Sensor has the capability to accurately compensate on a real-time basis differences between oils or changes of the characteristics of the oil being measured. This unique feature is not found in traditional sensors using capacitive technology. An Additional feature unique to the SSI 3000 sensor is the ability to interpret and normalize the liquid level output readings for both vehicle pitch and roll.

Electronic circuitry is housed in a small sealed enclosure which is located within the probe. The SSI model 3000 Level Sensor can be provided with either a digital or analog output. The output can be modeled to the configuration of the fluid reservoir. The probe portion of the sensor is manufactured using titanium and can be made in various lengths to suit the application.

The Fluid Level Sensor can be adapted to aircraft and tracked and wheeled military vehicles. Typical applications include oil level sensing in main engines, auxiliary power units and transmissions for land vehicles, fixed-wing aircraft and helicopters.

Optional controllers and displays - vehicle specific- are available.



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SPECIFICATIONS

Input Power

+ 28 Vdc vehicle/aircraft power 100 Milliamperes.

Length/Diameter

Customizable to fit the application.

Accuracy/Repeatability

The repeatability of the sensor will be within +/- 5%, and the accuracy of the readings will be within +/- 3 % from empty to full.

Operating Temperatures

- 40 °F to + 254 °F

Shock/Vibration

MIL STD-810

EMI

MIL STD-461A

The Markets We Serve



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