

LSM500-IP69K

Mil-Spec Ground Vehicle 5-Bolt Coolant Level Sensor

Designed for direct installation within defence ground vehicles coolant systems, the LSM500-IP69K is a highly accurate, robust coolant level sensor engineered specifically for military applications. Featuring stainless steel construction and with an ingress protection rating of IP69K, the LSM500-IP69K is built for durability in high shock and vibration environments.

Reventec's solid-state, sensors provide powerful vehicle health monitoring and analysis of critical components to offer predictive vehicle maintenance to reduce vehicle downtime and unexpected breakdowns in combat zones. Delivering continuous, real-time readings for ultimate vehicle deployability and operational readiness, the LSM500-IP69K features an SAE 5-bolt mounting pattern for secure fitment to the exterior of coolant tanks. The liquid level sensors are manufactured to length for easy installation and are available in custom sizes up to 700mm long.

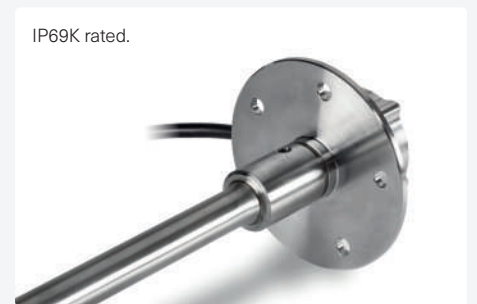
Boasting advanced accuracies of up to $\pm 0.5\%$, the LSM500-IP69K offers analog 0-5V, CAN or both outputs directly from the coolant level sensor as integrated electronics within the sensor head, allowing for extremely accurate readings without the need for external CPU processing. Both the probe and electronics have a high operating temperature of -40°C to $+125^{\circ}\text{C}$, with -55°C to $+150^{\circ}\text{C}$ temperature variants available. Certification to MIL STD 461F and RCTA DO160F available.

Key Features

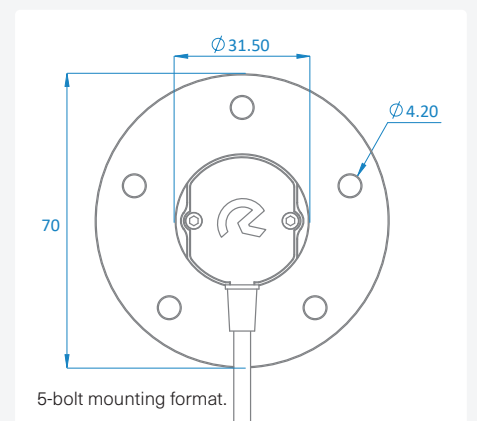
- Continuous, solid-state capacitive sensing technology
- Analog 0-5V and CAN output options
- Extremely accurate; $\pm 1\%$ of reading ($\pm 0.5\%$ option available)
- 2 bar differential tank pressure ratings (up to 10 bar available).
- Measurement accuracy unaffected by physical orientation of the sensor
- -55°C to $+150^{\circ}\text{C}$ operating temperature range
- Mil-Std EMC Certified to 461F and RCTA DO160F
- IP69K rated for extreme environments
- Manufactured in the UK

Benefits

- Manufactured to length and calibrated in intended liquid for accuracy.
- Insensitive to orientation allowing for convenient placement in fluid tanks.
- Solid-state for minimal maintenance.
- Capacitive technology delivers accurate level measurement despite sloshing.
- Full customisation available to suit specialist applications.
- Compatible with a wide variety of dielectric fluids, including fuel, oil, water and coolants.



Example Sensor Dimensions



EMC Approvals

MIL STD 461F Army Ground Limits:
CS114, CS115, CS116, RE102, RS103, RS101, CE102, CS101

RCTA DO160F: Section 25 ESD Cat. A



Mil-Std EMC
Certified



Vibration
Tolerant



Integrated
Electronics



Ingress Protection
up to IP69K



Insensitive to
Orientation



Lightweight
Construction



Solid-State
Technology