



## GLOBAL ENGINEERING EXCELLENCE

Award-winning measurement solutions for extreme environments.

Reventec is a global leader in the design and manufacture of solid-state capacitive liquid level sensors, non-contact position sensors and programmable temperature sensors providing innovative solutions to often challenging engineering requirements.



Mil-Std EMC Compatible



Vibration Tolerant



Insensitive to Orientation



Integrated Electronics



Ingress Protection up to IP69K



Lightweight Construction

Certification to 461F and RCTA DO160F available.

Certified to ISO 9001:2015



# SENSORS FOR EXTREME ENVIRONMENTS

Liquid Level | Position | Temperature

**EXTEND**  
VEHICLE RANGE,  
MISSION DURATION &  
COMPONENT DEPENDABILITY

**LIMIT**  
VEHICLE DOWNTIME

Reventec Limited,  
Unit 34, Downton Business Centre,  
Downton, Salisbury,  
Wiltshire, SP5 3HU,  
United Kingdom

**Tel.:** +44 (0)1725 510321  
**Email:** info@reventec.com

[www.reventec.com](http://www.reventec.com)



## MILITARY VEHICLE HEALTH SENSORS

Extend your mission with real-time vehicle health measurement; delivering dependable data, when it counts.

FUEL, OIL, COOLANT & WATER  
LIQUID LEVEL SENSORS

LINEAR, ARC & ROTARY  
POSITION SENSORS

PROGRAMMABLE  
TEMPERATURE SENSORS



UK MOD © Crown Copyright 2022

# DRIVE DEEPER. FLY FURTHER. DEFEND FOR LONGER.

Reventec's vehicle health sensors provide real-time measurement of vital vehicle's components for real confidence. Performance monitoring delivers serious vehicle range extension and improves predictive maintenance allowing mission-critical vehicles to avoid breakdowns in combat zones, reduce vehicle downtime and enable quick deployment.

## FULL CUSTOMISATION

Reventec specialises in unusual sensor requirements and can adapt our existing designs to fit your specific application. With our manufacturing and R&D facilities based alongside our design and development offices, projects can make the jump from CAD screen to production rapidly.

- ✓ Lightweight and ruggedised constructions
- ✓ Mil-spec certified
- ✓ Integrated electronics with extreme temperature specification ranging from -55°C to +150°C.
- ✓ Multichannel, programmable analog 0-5V or CAN output options
- ✓ Ultimate shock resistant, vibration tolerant and up to IP69K rated designs

## LINEAR, ARC & ROTARY NON-CONTACT POSITION SENSORS

Leveraging the latest advancements in Tunneling MagnetoResistive technology, Reventec's non-contact position sensors are capable of sensing across 40mm air gaps and through up to 20mm aluminium and stainless steel walls. Reventec position sensors offer superior accuracy compared to Hall Effect devices and potentiometers, providing reliable, robust measurement of linear, angular and rotary movements.

**TMRM-KZ-020-03**  
| Non-Contact Arc Position Sensor

**TMRM-IU-020-03**  
| Mil-Spec Rotary Position Sensor



## CAPACITIVE LIQUID LEVEL SENSORS

Reventec's solid-state, capacitive liquid level sensors monitor fuel, oil, water or coolant within a range of vehicle applications including: uncrewed aerial vehicles, ground vehicles and naval vessels. We provide standard and custom sensors, designed and built to length, offering high accuracy and long-term reliability in harsh environments. All of our liquid level sensors are insensitive to orientation for installation flexibility and convenient placement.

**LSM200<sup>IP69K</sup>**  
| Fully IP Rated  
| Robust Design

**LSM200<sup>38999</sup>**  
| Integrated 38999  
| Connectivity

**LSM800**  
| Lightweight  
| Construction

**LSM500<sup>IP69K</sup>**  
| High Vibration &  
| Shock Durability



## PROGRAMMABLE TEMPERATURE SENSORS

Robust temperature sensors with built in transmitter for continuous temperature detecting of gas and liquids. With no external CPU processing required, Reventec temperature sensors offer simple plug-and-play installation.

**TMRM-CE-050-02**  
| Programmable Temperature Sensor



## DESIGNED TO FIT YOUR PLATFORM

Reventec's technology is highly versatile and can be customised and packaged in a variety of forms. Current applications with our electronics include:

**Tactical Swimmer Vehicles:** Fitted with a Hydroplane Arc Position Sensor, Exhaust Valve Position Sensor, Submersible Exhaust Temperature Sensor and Speed Sensor.

**Military Tracked Ground Vehicles:** Fitted with a Stainless Steel Engine Oil Level Sensor, Transmission Oil Level Sensor and Engine Coolant Level Sensor.

**Military UAVs:** Fitted with a Fuel Level Sensor.

## EMC APPROVALS

**MIL STD 461F Aircraft, Navy and Army Ground Limits:** CE102 (10kHz-10MHz), RE102 (2MHz-1GHz), CS101 (30Hz-150kHz), CS114 (10kHz-200MHz), CS115, CS116, RS101, RS103 (2MHz-18GHz)

**RTCA DO160F:**  
Section 25 ESD Cat. A (±15kV Air Discharge)

