RadarSens LR
Long Range Radar Level Monitoring

RadarSens LR is a long-range radar sensor for level monitoring applications in deep chambers.

Interchangeable with the low-cost standard RadarSens sensor on the same HWM Global logger, installation of RadarSens LR uses the same programming regime, allowing for technicians to simply swap sensors for the site situation. The same install bracket is used, with the sensor cradle easily exchanged.

The sensor is specifically designed for HMW Global loggers and using specific protocols maintains the log battery life and remote programming capability of the RadarSens system. This includes Bluetooth® local communications to avoid the need for confined space entry.

Currently certified ATEX Zone 2, with Zone 1 variant pending.

RadarSens and the new RadarSens LR provide a comprehensive and highly cost-effective solution for all level monitoring applications. The technical capabilities developed over thousands of installs brings accurate data and easy use. Local and remote programming facilities can address typical site problems that may be causing benching and other data issues.

RadarSens and RadarSens LR are compatible with a range of HWM Global loggers to suit different applications.

Key Features

- Advanced and cost-effective radar sensor delivers precise data for long-term network monitoring.

- Interchangeable with standard RadarSens to suit site situation.

- Intrinsically safe and certified to zone 2 gas group IIA.

- ±1.6mm accuracy across a 14m range (Zone 2 variant).

- Latest specification NBIoT/LTE-M communication utilising roaming SIMs.

- Local Bluetooth® configuration allows for definitive in-chamber signal strength testing and sensor reflection tracing using the IDT app (Android and iOS).

- Remote monitoring of data quality, tilt alarm and chamber temperature to confirm if unexpected changes in level trends are related to third-party activity.

- A range of easy-fit, quick release wall brackets and non-drill brace bars are available.

- Compatibility with the HWM Global Deployment App to support quick and accurate mass deployment.

- Drop-in laser alignment tool to assist installation, ensuring the sensor is positioned correctly (supplied separately).

- Typical 5+ year battery life (powered by data logger).

- IP68, rugged construction.

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Specifications

Operating Temp:	-20 to +60°C (-5 to +140°F)
Dimensions:	76H x 37W x 37D (mm) - 3.0" x 1.5" x 1.5"
Accuracy:	± 1.6mm
Range:	up to 14m
Beam Angle:	4°
Radar Signal Type:	FMCW EHF
Ingress Protection:	IP68 rated
Rating:	Certified to Zone 2 gas group IIA
Alarms:	Multiple threshold, profile with additional diagnostics
Deployment:	Drop-in alignment tool (supplied separately)
Antenna (Logger):	Bulgin connector
Battery (Logger):	Typical 5+ year battery life
Internal Cellular Modem (Logger):	Multiple advanced cellular telemetry options available (contact HWM Global for more information)

IS Log
ATEX Certified Data Logger

RadarSens LR is typically deployed with ISLog for single applications but is compatible with numerous HWM Global loggers for multi-channel applications. The sensor is powered by the logger.

With thousands of units installed in sewer and gas networks worldwide, ISLog is trusted to deliver dependable data through advanced cellular telemetry.

ISLog is IP68 rated, has a typical five-year battery life and is programmed via our easy-to-use installation app.

HWM Global Apps
Logger Installation Support

The HWM Global Deployment App is an installation tool that supports the quick and effective deployment of HWM Global manufactured data loggers. As well as recording installation details, the IDT App is used to test signal strength during installation.

DataGate/DataView/SpillGuard
Secure Data Platforms

Our DataGate, DataView and SpillGuard platforms provide access to the devices and the data that they gather. DataGate holds a database of all installations and site details, while SpillGuard is map based and provides level information but also trends, site history, GIS import, Rainfall data and other features designed to target emerging problems and manage fleet performance.

Data Transfer – DataGate is specifically designed to provide multiple outputs to third party analysis programs so that customers can easily integrate new data points to their overarching management systems and digital twins.

THE KING'S AWARDS FOR ENTERPRISE 2023 INNOVATION

British Assessment Bureau · UKAS · ISO 9001 QUALITY MANAGEMENT

British Assessment Bureau · UKAS · ISO 14001 ENVIRONMENTAL MANAGEMENT

British Assessment Bureau · UKAS · ISO 27001 INFORMATION SECURITY MANAGEMENT

British Assessment Bureau · UKAS · ISO 45001 HEALTH & SAFETY MANAGEMENT

CYBER ESSENTIALS

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DAT-175-0001-C   12.01.2026

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