

RadarSens LR

Long Range Radar Sewer Level Monitoring

RadarSens LR is our intrinsically safe level monitoring system that combines **radar sensing technology** with advanced **cellular telemetry** for effective sewer level monitoring (SLM) in channels with a **depth greater than 3 metres**.

Designed to be quick and simple to install at manhole entrances, to avoid the cost of sewer entry, RadarSens LR provides the additional range necessary for monitoring deeper chambers whilst retaining the advanced features of our renowned RadarSens system.

Compatible with, and powered by, our IS Log data logger and suitable for both SLM and CSO, RadarSens LR is an advanced monitoring solution for that excels in challenging sewer environments.



Fast, Easy, 'Right First Time' Deployment

Built to operate in harsh environments, the RadarSens system is compatible with a variety of quick-fit installation brackets and can be supplied with a laser alignment tool for accurate sensor positioning.

Local communication is carried out through a dedicated app (Android or iOS) and Bluetooth®.

RadarSens LR is quickly and easily installed through the Deployment App. Any required site data (including photographs) can be uploaded and the app also provides positioning data. Everything is synced to DataGate automatically and attached to GIS (if uploaded).

Through the app the in-chamber signal strength can be confirmed, while the strength and repeatability of the echo received by the sensor can also be checked.

Key Features and Benefits

- Advanced and cost-effective radar sensor delivers precise data for long-term network monitoring
- Intrinsically safe and certified for use in Zone 1 hazardous areas
- ≤ 2mm accuracy with a 14m range
- Latest specification NBIoT/LTE-M communication through roaming SIM, with 2G fallback
- 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 and chamber temperature to confirm if unexpected changes in level trends are related to third-party activity
- A range of easy-fit and robust stainless steel wall brackets and non-drill installation brace bars are available
- Compatibility with Installation 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
- IP68, rugged construction and long-life battery

MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL

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Specification

Operating Temp.	-20 to 60°C (-5 to 140°F)
Dimensions	H = 76mm, W = 37mm, D = 37mm (3.0" x 1.5" x 1.5")
Accuracy	≤ 2mm
Range	up to 14m
Ingress Protection	IP68 rated
Rating	UKEx/ATEX/IEC Ex certified to Zone 1
Alarms	Multiple threshold, profile with additional diagnostics
Deployment	Drop-in alignment tool (supplied separately)
Antenna (Logger)	Bulgin
Battery (Logger)	Typical 5+ year battery life
Internal Cellular Modem (Logger)	Advanced cellular telemetry options available (contact HWM Global for more information)

IS Log

ATEX Certified Data Logger

RadarSens LR is powered by our intrinsically safe, highly versatile IS Log data logger. With thousands of units installed in sewer and gas networks worldwide, IS Log is trusted to deliver dependable data through advanced cellular telemetry. IS Log is IP68 rated, has a typical five-year battery life and is programmed via our easy to use installation app.

HWM Deployment App

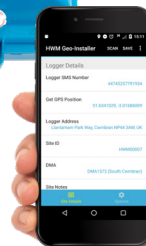
Logger Installation Support

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

DataGate/DataView

Secure Data Platforms

Our DataGate and DataView platforms provide access to the devices and the data that they gather. DataGate holds a database of all installations and site details, while DataView provides the collected level data as well as the ability to set and view alarms.



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