

# RadarSens

## Radar Level Sensor

RadarSens is an intrinsically safe level monitoring system that uses radar sensing technology and advanced cellular telemetry to monitor and transmit waste water network level data.

RadarSens is simple to install and cost-effective, using a variety of stainless-steel, non-drill brace bars or conventional wall brackets for 'right first time' deployment. Additionally, a laser alignment tool (supplied separately) is available to check the device is level and aligned correctly during the rapid installation.

Installation and local configuration is carried out using Bluetooth® communication between the logger and IDT App. This allows for in-chamber NB-IoT, LTE-M or 2G signal strength testing and sensor reflection tracing to significantly reduce the likelihood of call-in or poor data quality issues post deployment. Site information is collected and synchronised with the DataGate platform at same time as installation using the Installer App.



### Key Features and Benefits

- **Intrinsically safe:** certified for use in Zone 0 hazardous areas (visit HWM website for certification details)
- **Radar technology:** advanced and cost-effective radar sensor delivers precise data for long-term network monitoring
- **Accurate:**  $\pm 0.5\%$  accuracy with a 3m range
- **Battery powered:** typical 5+ year battery life
- **Dependable:** IP68, rugged construction and long-life battery
- **Telemetry:** compatible with NB-IoT, LTE-M and 2G cellular networks for futureproofing
- **Bluetooth® connectivity:** local Bluetooth® configuration allows for definitive in-chamber signal strength testing and sensor reflection tracing using the IDT app (Android and iOS)
- **Sensor health check:** remote monitoring of sensor position (pitch & roll), data quality and chamber temperature to confirm if unexpected changes in level trends are related to third-party activity
- **Secure:** a range of easy-fit stainless steel wall brackets and non-drill installation brace bars are available
- **Installation App:** supporting quick and accurate mass deployment
- **Drop-in laser alignment tool:** to assist installation and ensure the sensor is positioned correctly (supplied separately)



### 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 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.

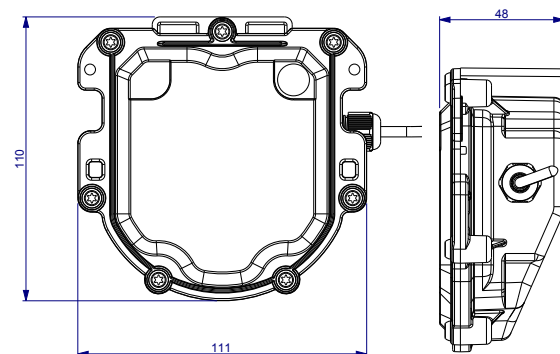
MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL

# RadarSens

## Radar Level Sensor

### Specification

Operating Temp.	-20 to 60°C (-5 to 140°F)
Dimensions	H = 40mm, W = 110mm, D = 111mm (1.6" x 4.3" x 4.3")
Accuracy	±0.5%
Range	3m
Ingress Protection	IP68 rated
Rating	UKEx/ATEX/IEC Ex certified to Zone 0
Alarms	Multiple threshold, profile & pitch & roll 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 for more information)



### IS Log

#### ATEX Certified Data Logger

RadarSens 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.



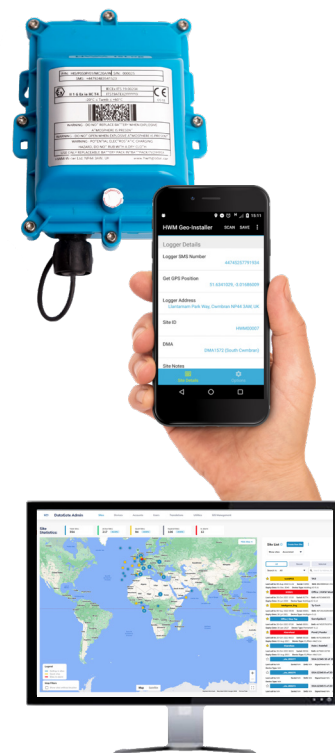
All images, text and designs are protected by international and UK copyright law and remain the property of HWM. It is against the law to copy or use any of the content from HWM website or literature without the written consent of HWM. HWM Ltd. reserve the right to vary the specification.



#### HWM Water Limited

Ty Coch House  
Llantarnam Park Way  
Cwmbran  
NP44 3AW  
United Kingdom

Tel: +44 (0) 1633 489 479  
Fax: +44 (0) 1633 877 857  
Email: [sales@hwm-water.com](mailto:sales@hwm-water.com)  
Web: [www.hwmglobal.com](http://www.hwmglobal.com)



MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL