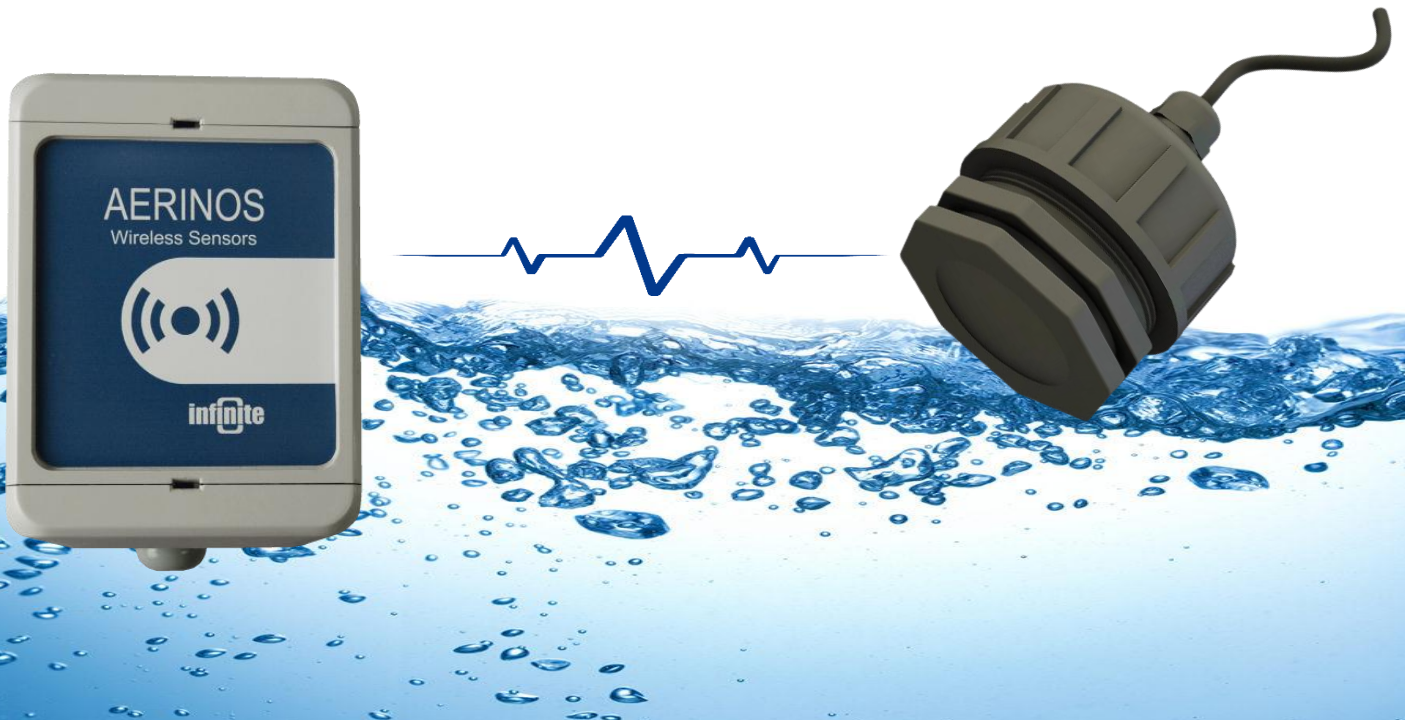


REye-200

60Ghz Water Level Radar Sensor



Introduction

The REye-200 is a radar water level sensor using 60GHz Pulsed coherent radar technology.

It can be used to monitor the level of sea, lakes, rivers and creeks. The sensor has a narrow field of view and fast measurement response time.

The sensor incorporates an ultra-low power microcontroller for data sampling, subsystem activation and overall system control.

The sensor can operate on Lithium Thionyl battery supplying system for up to 10 years.

The REye-200 has a Modbus interface to connect to any device.

The sensor can be combined with a variety of Infinite's products.

Applications

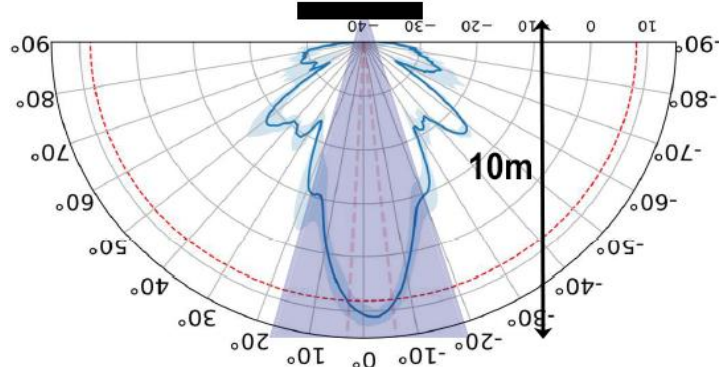
- Water level at rivers, lakes, sea
- Flood monitoring
- Silo dry level monitoring
- Tank wet level monitoring

Features

- 1-10m configurable detection range
- 1 mm resolution
- Narrow field of view width
- Immune to noise (sunlight, dust, rain)
- IP67 Enclosure
- $\leq 5\text{mW}$ Active power
- Quick and easy installation
- Battery powered operation
- Modbus ASCII

Fully integrated with Itron City Edge, Cumulocity, Microsoft Azure, Amazon AWS, Losant and any platform via MQTT using ADS-300 NB-IoT/LTE-M or ADS-410 Itron RTUs.

Range Monitor



Technical characteristics

Power supply

Battery	12VDC
Consumption	0.1W, 80 mA max
Transmit Freq	60 Ghz
Range	1-10 m (configurable)
Accuracy	+/-2mm @ 4m, +/-4mm @ 10m
Connectivity	Modbus ASCII
Temperature	-40°C...+85°C operating
Protection	IP67/68
Dimensions	40 x 40 x 50 mm
Weight	0.05 kg

Ordering Information

Code REye-200

Sample MQTT Payload:

359986127481361

01/05/2024 14:00:00,0,+000002645,03

01/05/2024 14:15:15,0,+000002646,03

Enclosure

PVC (IP67/68) for outdoor use.

RoHS Compliant
Directive 2002/95/EC



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