

REye-210-BLE

24 GHz Water Level Radar Sensor



Introduction

The REye-210-BLE is a BLE radar water level sensor using 24 GHz 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 from its lithium battery for up to 5 years.

The REye-210-BLE advertises the measured level over Bluetooth Low Energy (BLE) every 5 minutes.

Each BLE advertisement reports the measured level in millimetres (mm).

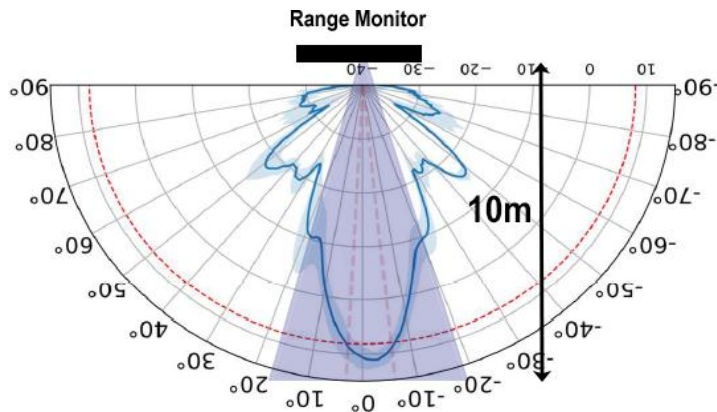
Applications

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

Features

- 30 cm-10 m detection range
- 1 mm resolution
- Narrow field of view width
- Immune to noise (sunlight, dust, rain)
- IP68 enclosure
- $\leq 5\text{mW}$ Active power
- Quick and easy installation
- Battery powered operation
- Bluetooth LE, up to 100 m line of sight

BLE advertisements can be collected by a compatible BLE gateway and forwarded to MQTT or cloud platforms.



Technical characteristics

Power supply: Lithium battery
Active power: ≤ 5 mW
Transmit frequency: 24 GHz
Detection range: 0.3-10 m
Resolution: 1 mm
Accuracy: $\pm 1-2$ cm
Connectivity: Bluetooth Low Energy (BLE)
Temperature: $-40^{\circ}\text{C} \dots +85^{\circ}\text{C}$ operating
Protection: IP68
Dimensions :40 x 40 x 50 mm
Weight: 0.06 kg

Ordering Information

Code: REye-210-BLE

Sample BLE Advertisement:

Mac ID

Measured level: in mm, RSSI signal quality

c3b350181489

04/08/2026 14:12:08,2043,081

04/08/2026 14:17:08,2055,081

04/08/2026 14:22:08,2033,083

Enclosure

PVC (IP68) for outdoor use.

RoHS Compliant
Directive 2002/95/EC



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