



### Introduction

The REye-100 is a radar water level sensor using 24GHz millimeter wave 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 a Dopler & FMCW radar and 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-100 has an I2C interface to connect to Aerinos devices.

Data transfer using Aerinos ADS-3/4xx devices via MQTT.

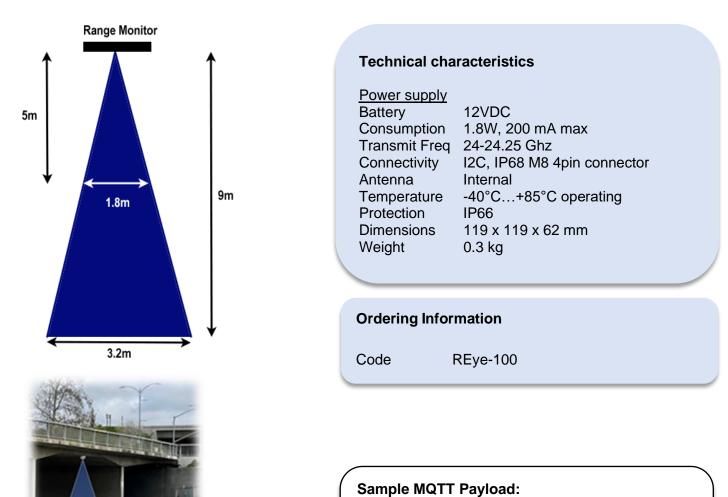
### Applications

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

### Features

- 1-50m detection range
- 4 cm resolution
- Narrow 20° x24° field of view width (-3 dB)
- Immune to noise (sunlight, dust, rain)
- IP66 Enclosure
- ≤2.5W Active power
- Quick and easy installation
- Battery powered operation
- Data transfer using MQTT

## Fully integrated with Itron SLV, Cumulocity, Microsoft Azure, Amazon AWS, Losant and any platform via MQTT.



# Setup and programming

The unit is by default configured and there is no need for any user intervention.

## Enclosure

Polycarbonate (IP66) for outdoor use.



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