

LoRaWAN-enabled radio module for Novator water meters

Part number: JOOBY AQUARIS RMS LoRaWAN WONO10 203 EU



This radio module is a simple, affordable solution that lets you optimize data collection, receive accurate, timely information, and prevent theft. When mounted on Novator water meters, this device collects readings and transmits the data to the supplier's accounting system. The entire process takes just a few minutes and doesn't require meter removal. Once installed,

the radio module is activated by magnetic exposure. The device collects water meter readings using optical sensors and transmits the data over a LoRaWAN wireless network to the server. The Jooby Aquaris RMS also detects unauthorized activity such as magnetic exposure or tampering and alerts you of water backflow and low battery.



Remote collection of readings from all metering points



Installation in a matter of minutes, activation with an app



Warning about removal or magnetic tampering



The service life of 5 to 15 years without battery replacement*



Water backflow monitoring



Remote configuration of data reporting intervals



Hourly, daily, monthly, and yearly usage logs



Body IP rating: IP54



Warranty period: 5 years

*depends on the data reporting frequency and the amount of interference between the unit and the base station

Technical specification

LoRaWAN device class	A
Cyclicality of data transmission	Configurable (default once every 4 hours)
Remote change of data transmission frequency	+
Data storage period in non-volatile memory, (not less than/max) years	10/15
Capacity of hourly consumption log, months	2
Capacity of daily consumption log, years	2
Capacity of events and alarms log, number of events	256
Battery status monitoring	+
Notification of removal	+
Notification of exposure to magnet	+
Support ADR (Adaptive Data Rate)	+
Water backflow monitoring	+

General information

Case material	Polyamide PA12
Overall dimensions, mm	108,4 x 69 x 24
Weight, g	~ 62
Warranty period of operation, years	5

Radio transmission characteristics

Operating frequency, MHz	EU868
Communication protocol	LoRaWAN
Transmitter power, mW	< 25
Receiver sensitivity, dBm	< -138
Data transfer rate, bits/s	250 – 50,000
Communication range in urban areas, km	Up to 2
Communication range in line of sight conditions, km	Up to 10

Operation

Working temperature, °C	-30...+85
IP rating	IP54
Battery life (without replacement), years	From 5 to 15
Suitable water meter model	Novator ЛК-15X, Novator ЛК-15Г

A complete list of meter models compatible with the radio module is available at wiki.jooby.eu



Battery source

Battery voltage, V	3.6
Nominal capacity of the battery, AH	2.5