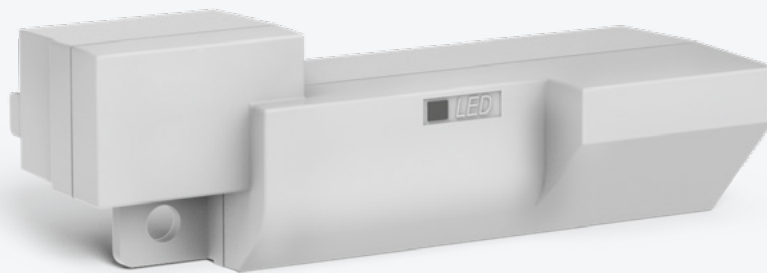# JOOBY EPHIR RMS

jooby

LoRaWAN radio module with sensors
for Samgas gas meter

Part number: JOOBY EPHIR LoRaWAN RMS GMSG10 105 EU

This radio module for Samgas gas meters allows suppliers and management companies to quickly get accurate data on the consumption of gas. The device automatically captures the meter readings and sends data to the server over a LoRaWAN wireless network at a defined frequency. The software then converts the data into readings and the information becomes available to the provider in the administration panel. Installation and activation of the radio module takes a few minutes. The device is activated by means of the application. A smart device sensor takes the meter readings and records events such as attempts to remove the radio module or slow down the meter with a magnet.

- Remote collection of readings from all metering points
- Installation in a matter of minutes, activation with an app
- Warning about removal or magnetic tampering
- Service life of 5 to 15 years without battery replacement*

- Remote configuration of data reporting intervals
- Hourly, daily, monthly, and yearly usage logs
- Body IP rating: IP50
- Warranty period: 5 years

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

Technical specifications

Class of LoRaWAN devices	A
Data transmission cycle	Customized (by default every 4 hours)
Remote change in the data transmission frequency	+
The period of data storage in a non-volatile memory (min / max), years	10 / 15
Hourly consumption log capacity, months	2
Daily consumption log capacity, years	1
Event and alarm log capacity, number of events	256
Battery status monitoring	+
Notification of removal	+
Notification of magnetic tampering	+
ADR (Adaptive Data Rate) support	+

General information

Body material	ABS plastic
Overall dimensions, mm	97 x 45 x 32
Weight, g	~ 50
Warranty period, years	5

Characteristics of radio transmission

Operating frequency, MHz	EU868
Communication protocol	LoRaWAN
Transmitter power, mW	< 25
Receiver sensitivity, dBm	< −138
Data transmission rate, bps	250 – 50 000
Communication range in urban areas, km	Up to 2
Line-of-sight communication range, km	Up to 10

Operation

Operating temperature, °C	−30…+85
Degree of protection	IP50
Lifespan without battery replacement, years	From 5 to 15
Gas meter models:	SAMGAS G1.6, SAMGAS G2.5, SAMGAS G4, SAMGAS G6
The complete list of meter models compatible with the radio module is available on the website: wiki.jooby.eu	

Power supply

Battery voltage, V	3.6
Rated battery capacity, A*h	2.5