

REMOTE WATER METER READER

DATASHEET



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Document Release Information

Persons in Charge		Document Information	
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Description

The Remote Water Meter Reader enables acquisition and data transmission from metering devices equipped with pulse output, such as water meters, electrical meters, gas meters, etc.

The device is designed to easily connect to existing pulse water meters, agnostic of vendor and to transmit data wirelessly via either LoRaWAN or NBloT networks to a centralized platform or database. The chosen communication technology provide excellent, cost-effective, and energy-efficient coverage inside and outside buildings, shafts, garages and challenging sites.

Technical Specification

Parameters	Values/Data
Operating temperature:	-20 ~ +80°C
Tx power:	up to 14dBm
Fixing system:	Pipe, wall
Activation type:	Wireless, via magnet
Communication protocol:	LoRaWAN or NBloT
IP rating:	IP68
Dimensions:	120 x 35 x 35 mm

The Remote Water Meter Reader features:

- Long range wireless connectivity, up to 15 km in open space, line of sight (applicable for version with LoRaWAN);
- Embedded temperature sensor for ambient temperature sensing, available option for external temperature sensor;
- Registration of impulses from standard pulse water meters from any vendor irrespective of pulse output. The connection to the water meter is via cable connectivity and the use of a specialized waterproof connector, part of the kit, for quick and easy connection;
- Easily replaceable industrial battery pack (2xAA) to ensure a long life cycle of the device and thus investment protection. The battery pack is easily replaceable by non-specialists or end users by opening the device cover, detaching the connector of the exhausted battery pack, and replacing it with a new one;
- Built-in separate antenna component for long distance connectivity;
- Remotely configurable reporting interval, the pulses of the water meter are constantly detected;
- 60 months average battery life on 4 reports per day;
- Up to 100 000 messages with one industrial battery pack;
- Easy and quick installation and connection to a pulse water meter via specialized connectors included in the pack;
- Unauthorized interference protection via self-destructive warranty patches.



Figure 1. Remote Water Meter Reader



Figure 2. Specialized waterproof connector used to connect the Reader and the pulse water meter (not in scale with the Reader)



Figure 3. Replaceable industrial battery pack