

REMOTE WATER METER READER

DATASHEET



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Document Release Information

Persons in Charge		Document Information	
Technical Approval	Petar Ivanov	Version	8.1
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1. Description

The Remote Water Meter Reader is designed to easily connect to standard pulse water meters or other 3rd party equipment and transmit data wirelessly and autonomously utilizing LoRaWAN network protocol.

2. Technical Specification

Parameter	Value
Hardware Version	8.1
Inputs/Outputs	2 digital inputs and 2 digital outputs
Operating Temperature	-20 ~ +80°C
Built-in Sensors	Embedded temperature sensor for ambient temperature sensing
LoRaWAN Protocol Version	LoRaWAN 1.0.3
Supported LoRaWAN Regions	LoRaWAN AS923
	LoRaWAN EU868
	LoRaWAN US915
	LoRaWAN IN865
Power Supply	Industrial battery pack, replaceable (5 years of autonomous work)
Protection Level	IP68, for indoor and outdoor mounting
LoRa Module Certification	FCC/CE
Dimensions	120 mm x 35 mm x 35 mm

Table 1: Remote Water Meter Reader Specification

3. Remote Water Meter Reader Options

Product Number	Description
DWM8110AA	LoRaWAN AU923, 2 conductor cable
DWM8110BA	LoRaWAN AU923, 6 conductor cable
DWM8110AB	LoRaWAN EU868, 2 conductor cable
DWM8110BB	LoRaWAN EU868, 6 conductor cable
DWM8110AC	LoRaWAN US915, 2 conductor cable
DWM8110BC	LoRaWAN US915, 6 conductor cable
DWM8110AD	LoRaWAN IN865, 2 conductor cable
DWM8110BD	LoRaWAN IN865, 6 conductor cable

Table 2: Remote Water Meter Reader Options

4. Features

- Pulse registration from standard pulse output water meters, regardless of vendor or pulse volume;
- Equipped with either 2 or 6 conductor cable with a standard length of 1 meter. A pair of two conductors are required to connect to a water meter with a pulse output;
- Easy and quick installation and connection to a pulse output water meter via specialized waterproof cable connectors;
- Remotely configurable data reporting interval (water meter data is read constantly);

- Built-in temperature sensor for ambient temperature tracking and water freeze detection;
- Built-in separate internal helix antenna (not printed on the board) to provide long-distance connectivity and lower power consumption;
- Durable IP68 construction, for indoor and outdoor mounting;
- Replaceable industrial battery pack ensuring long device life. It can be replaced by directly on the field by opening the device's top panel, disconnecting the existing industrial battery pack, and connecting the replacement. This feature enables the user to protect its investment while not limiting the reporting frequency;
- 60-month average battery life, under a reporting interval of four data reports per day and a low spread factor;
- Self-destructive VOID warranty labels for demonstrating external interference or an attempt to violate the integrity of the device.
- Provides effortless multi-platform integration using standard protocols.

5. Pack Components



Figure 1. Remote Water Meter Reader



Figure 2. Specialized Waterproof Cable Connectors for Connecting the Remote Water Meter Reader to the Pulse Output of a Water Meter



Figure 3. Replaceable Industrial Battery Pack