

# REMOTE WATER METER READER

## DATASHEET



## Document Release Information

Persons in Charge		Document Information	
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## Table of Contents

Document Release Information .....	2
Table of Contents .....	3
List of Figures .....	4
List of Tables .....	4
1. Description .....	5
2. Technical Specification .....	5
3. Remote Water Meter Reader Options .....	5
4. Features .....	6
5. Pack Components .....	7

## List of Figures

Figure 1. Remote Water Meter Reader.....	7
Figure 2. Specialized Waterproof Cable Connectors for Connecting the Remote Water Meter Reader to the Pulse Output of a Water Meter.....	7
Figure 3. Replaceable Industrial Battery Pack.....	7

## List of Tables

Table 1: Remote Water Meter Reader Specification.....	5
Table 2: Remote Water Meter Reader Options .....	6

## 1. Description

The Remote Water Meter Reader is designed to easily connect to standard pulse water meters or other 3<sup>rd</sup> 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 (10 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, 5Y Battery Life
DWM8110BA	LoRaWAN AU923, 6 conductor cable, 5Y Battery Life
DWM8110CA	LoRaWAN AU923, 2 conductor cable, 10Y Battery Life
DWM8110DA	LoRaWAN AU923, 6 conductor cable, 10Y Battery Life
DWM8110EA	LoRaWAN AU923, 2 conductor cable, 10Y Battery Life, with connector
DWM8110FA	LoRaWAN AU923, 6 conductor cable, 10Y Battery Life, with connector
DWM8110AB	LoRaWAN EU868, 2 conductor cable, 5Y Battery Life
DWM8110BB	LoRaWAN EU868, 6 conductor cable, 5Y Battery Life
DWM8110CB	LoRaWAN EU868, 2 conductor cable, 10Y Battery Life
DWM8110DB	LoRaWAN EU868, 6 conductor cable, 10Y Battery Life
DWM8110EB	LoRaWAN EU868, 2 conductor cable, 10Y Battery Life, with connector
DWM8110FB	LoRaWAN EU868, 6 conductor cable, 10Y Battery Life, with connector
DWM8110AC	LoRaWAN US915, 2 conductor cable, 5Y Battery Life
DWM8110BC	LoRaWAN US915, 6 conductor cable, 5Y Battery Life
DWM8110CC	LoRaWAN US915, 2 conductor cable, 10Y Battery Life
DWM8110DC	LoRaWAN US915, 6 conductor cable, 10Y Battery Life
DWM8110EC	LoRaWAN US915, 2 conductor cable, 10Y Battery Life, with connector
DWM8110FC	LoRaWAN US915, 6 conductor cable, 10Y Battery Life, with connector
DWM8110AD	LoRaWAN IN865, 2 conductor cable, 5Y Battery Life
DWM8110BD	LoRaWAN IN865, 6 conductor cable, 5Y Battery Life
DWM8110CD	LoRaWAN IN865, 2 conductor cable, 10Y Battery Life
DWM8110DD	LoRaWAN IN865, 6 conductor cable, 10Y Battery Life
DWM8110ED	LoRaWAN IN865, 2 conductor cable, 10Y Battery Life, with connector

DWM8110FD	LoRaWAN IN865, 6 conductor cable, 10Y Battery Life, with connector
DWM8110AE	LoRaWAN AS923, 2 conductor cable, 5Y Battery Life
DWM8110BE	LoRaWAN AS923, 6 conductor cable, 5Y Battery Life
DWM8110CE	LoRaWAN AS923, 2 conductor cable, 10Y Battery Life
DWM8110DE	LoRaWAN AS923, 6 conductor cable, 10Y Battery Life
DWM8110EE	LoRaWAN AS923, 2 conductor cable, 10Y Battery Life, with connector
DWM8110FE	LoRaWAN AS923, 6 conductor cable, 10Y Battery Life, with connector

*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 detachable 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 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;
- 10 years of battery life, under a reporting interval of eight data reports per day on SF7 and one data report per day on SF12;
- Self-destructive VOID warranty labels for demonstrating external interference or an attempt to violate the integrity of the device;
- Alarm message if connector is detached;
- 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