

# REMOTE WATER METER READER

## XL

### DATASHEET



## Table of Contents

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

## List of Figures

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

## 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 XL (eXtreme Lifetime) is designed to easily connect to standard pulse water meters or other 3<sup>rd</sup> party equipment, transmit data wirelessly and autonomously utilizing LoRaWAN network protocol, and ensure extremely long battery lifetime.

## 2. Technical Specification

Parameter	Value
Hardware Version	8.2
Inputs/Outputs	2 digital inputs and 2 digital outputs
	2 analog inputs (max 12V)
	1 Current Loop interface
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	145 x 65 x 55 mm

Table 1: Remote Water Meter Reader XL Specification

## 3. Remote Water Meter Reader XL Options

Product Number	Description
DWM8210AA	LoRaWAN AU923, 2 conductor cable
DWM8210BA	LoRaWAN AU923, 6 conductor cable
DWM8210CA	LoRaWAN AU923, 12 conductor cable
DWM8210AB	LoRaWAN EU868, 2 conductor cable
DWM8210BB	LoRaWAN EU868, 6 conductor cable
DWM8210CB	LoRaWAN EU868, 12 conductor cable
DWM8210AC	LoRaWAN US915, 2 conductor cable
DWM8210BC	LoRaWAN US915, 6 conductor cable
DWM8210CC	LoRaWAN US915, 12 conductor cable
DWM8210AD	LoRaWAN IN865, 2 conductor cable
DWM8210BD	LoRaWAN IN865, 6 conductor cable
DWM8210CD	LoRaWAN IN865, 12 conductor cable

Table 2: Remote Water Meter Reader XL Options

## 4. Features

- Pulse registration from standard pulse output water meters, regardless of vendor or pulse volume;
- Equipped with either 2, 6 or 12 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;
- 10 years average battery life;
- 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 XL



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