

REMOTE WATER METER READER

XL

DATASHEET



Document Release Information

Persons in Charge		Document Information	
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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 3rd 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 analogue 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
DWM821OAA	LoRaWAN AU923, 2 conductor cable
DWM821OBA	LoRaWAN AU923, 6 conductor cable
DWM821OCA	LoRaWAN AU923, 12 conductor cable
DWM821OAB	LoRaWAN EU868, 2 conductor cable
DWM821OBB	LoRaWAN EU868, 6 conductor cable
DWM821OCB	LoRaWAN EU868, 12 conductor cable
DWM821OAC	LoRaWAN US915, 2 conductor cable
DWM821OBC	LoRaWAN US915, 6 conductor cable
DWM821OCC	LoRaWAN US915, 12 conductor cable
DWM821OAD	LoRaWAN IN865, 2 conductor cable
DWM821OBD	LoRaWAN IN865, 6 conductor cable
DWM821OCD	LoRaWAN IN865, 12 conductor cable
DWM821OAE	LoRaWAN AS923, 2 conductor cable
DWM821OBE	LoRaWAN AS923, 6 conductor cable
DWM821OCE	LoRaWAN AS923, 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 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;
- Alarm message if connector is detached;
- 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