

# REMOTE WATER METER READER

## XL NBIOT

### DATASHEET



## Document Release Information

Persons in Charge		Document Information	
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## 1. Description

The Remote Water Meter Reader XL (eXtreme Lifetime) NBloT is designed to easily connect to standard pulse water meters or other 3<sup>rd</sup> party equipment, transmit data wirelessly and autonomously utilizing NBloT 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
Connectivity	NBloT
Power Supply	Industrial battery pack, replaceable (10 years of autonomous work)
Protection Level	IP68, for indoor and outdoor mounting
NBloT Module Certification	FCC/CE
Dimensions	145 x 65 x 55 mm

Table 1: Remote Water Meter Reader XL NBloT Specification

## 3. Remote Water Meter Reader Options

Product Number	Description
DWM821ODA	NBloT, 2 conductor cable
DWM821ODB	NBloT, 6 conductor cable
DWM821ODC	NBloT, 12 conductor cable

Table 2: Remote Water Meter Reader XL NBloT 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 NBIoT



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