

OY1310 LoRaWAN Water meter AMR

LoRaWAN sensor designed to function in combination with **B Meters'** **mechanical water meters**. Complete package measures water flow in pipes automatically. Simply mount the LoRaWAN unit on top of a B Meters' GSD8-RFM mechanical water meter and integrate the meter into your IoT system.

Typical use cases:

Individual tenant invoicing

Leakage detecting in water pipes



OY1310 LoRaWAN Water meter AMR

Technical specification LoRaWAN unit

Versions

OY1310 LoRaWAN Water meter Compliant with B Meters' GSD8-RFM
Single jet water meter

Operations

Operating temperature 0°C to +55°C

Connectivity

Network LoRaWAN
Frequency bands 868 MHz
Provisioning Over the air & personalization

Security

Algorithms AES-128
Hardware Cryptographic co-processor
Features Secure boot
Secure firmware upgrade

Hardware based ultra secure key storage

Battery life

Battery life length 10 years (at 3 hour intervals, at SF12)
Primary cell Lithium-Manganese 3V
Capacity 2.2 Ah

Method

Optical readout Using infrared diodes

Weight

Weight 85g

Configuration

Transmission intervals 15 minutes, configurable over the air
Starting value Configurable over the air

Unique App EUI available upon request

Alarm functions

1. Module removal
2. Flow exceeding threshold value continuously (configurable)
3. Magnetic fraud attempt
4. Leak detection (configurable)

Enclosure

IP68

Certifications

RoHS compliant
CE
LoRaWAN

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Technical specification compatible mechanical water meters

GSD8-RFM

Manufacturer	B Meters
Water meter type	Single jet water meter
LoRaWAN compatible unit	OY1310 LoRaWAN Water meter

AMR method

Type	360° rotating lid, dry dial
Functionality	Anti-magnetic fraud protection
Reading	Direct reading on 8 numerical rolls

Availability

Cold water	0°C-50°C
Hot water	30°C-90°C
Pipe dimensions	DN15 (1/2") and DN20 (3/4")

Certifications

MID 2004 /22/CE up to the range R160-H/R50-V
ISO 4064 and OIML R49 compliant