

OY1310 LoRaWAN Single-jet smart water meter

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.

Professional, high security for billing applications

Talkpool's smart water meters are designed for individual tenant invoicing applications. Therefore, the meters come with anti-fraud and meter reliability features that can't be found in many other IoT meters. The most apparent of these is the fact that the IoT module only works on B METERS' water meters. This is a conscious design choice for an IoT module and a mechanical meter which are an exact fit together and is the result of the great collaboration between B METERS and Talkpool, each with their domain expertise.

As opposed to universal meter reading solutions, such as camera solutions that can be retrofitted on top of any brand of water meter, Talkpool's smart water meter cannot be tampered with. The module is locked and sealed on to the meter. Module removal or magnetic fraud attempts are directly reported by the module to the network servers, so that appropriate follow-up action can be taken. The sensor has a maintenance free battery life of 10 years and the battery can withstand the high temperatures of a warm water pipe.



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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
<i>Hardware based ultra-secure key storage</i>	
Weight	
Weight	85g
Battery life	
Battery life length	10 years (at 2,5 hour intervals, at SF12)
Primary cell	Lithium-Manganese 3V
Capacity	2.2 Ah
Method	
Optical readout	Using infrared diodes
Configuration	
Starting value	Configurable over the air
<i>Unique App EUI available upon request</i>	
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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Specifications compatible water meter

Water meter	
Manufacturer	B Meters
Model	GSD8-RFM
Water meter type	Single jet water meter
AMR method	
Type	360° rotating lid, dry dial
Functionality	Anti-magnetic fraud protection
Reading	Direct reading on 8 numerical rolls
Versions	
Cold water	0°C-50°C (T50)
Hot water	30°C-90°C (T30/90)
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	



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Order Product Numbers (OPN)

Version	OPN
Module only:	
OY1310 LoRaWAN Single-jet water meter module IP68	TP-T1310-000-1-EU
Complete package, module + water meter:	
OY1310 LoRaWAN Single-jet smart water meter DN15 T50 Q3=2,5 L80	TP-T1310-C15-1-EU-L080
OY1310 LoRaWAN Single-jet smart water meter DN15 T30/90 Q3=2,5 L80	TP-T1310-W15-1-EU-L080
OY1310 LoRaWAN Single-jet smart water meter DN15 T50 Q3=2,5 L110	TP-T1310-C15-1-EU-L110
OY1310 LoRaWAN Single-jet smart water meter DN15 T30/90 Q3=2,5 L110	TP-T1310-W15-1-EU-L110
OY1310 LoRaWAN Single-jet smart water meter DN20 T50 Q3=4 L130	TP-T1310-C20-1-EU-L130
OY1310 LoRaWAN Single-jet smart water meter DN20 T30/90 Q3=4 L130	TP-T1310-W20-1-EU-L130

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