

## OY1320 LoRaWAN® Multi-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' GMDM-RFM mechanical water meter and integrate the meter into your IoT system.

### Professional, high security for billing applications

Nordic Propeye'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 other water meters. For example, the IoT module only works on B METERS' water meters. This is a conscious design choice; an IoT module and a mechanical meter which are an exact fit together is the most secure solution.

As opposed to universal meter reading solutions, such as camera solutions that can be retrofitted on top of any brand of water meter, Nordic Propeye's smart water meter can't 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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<b>Operations</b>	
Operating temperature	0°C to +55°C
<b>Connectivity</b>	
Network	LoRaWAN®
Frequency bands	868 MHz
Provisioning	Over the air & personalization
<b>Security</b>	
Algorithms	AES-128
Hardware	Cryptographic co-processor
Features	Secure boot
	Secure firmware upgrade
<i>Hardware based ultra-secure key storage</i>	
<b>Weight</b>	
Weight	85g
<b>Battery life</b>	
Battery life length	10 years (at 2,5 hour intervals, at SF12)
Primary cell	Lithium-Manganese 3V
Capacity	2.2 Ah
<b>Method</b>	
Optical readout	Using infrared diodes
<b>Configuration</b>	
Starting value	Configurable over the air
<i>Unique App EUI available upon request</i>	
<b>Alarm functions</b>	
1. Module removal	
2. Flow exceeding threshold value continuously (configurable)	
3. Magnetic fraud attempt	
4. Leak detection (configurable)	
<b>Enclosure</b>	
IP68	
<b>Certifications</b>	
RoHS compliant	
CE	
LoRaWAN®	

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### Specifications compatible water meter

<b>Water meter</b>	
Manufacturer	B Meters
Model	GMDM-RFM
Water meter type	Single jet water meter
<b>AMR method</b>	
Type	360° rotating lid, dry dial
Functionality	Anti-magnetic fraud protection
Reading	Direct reading on 5 numerical rolls (6 numerical rolls on DN40 and DN50)
<b>Versions</b>	
Cold water	0°C-50°C (T50)
Hot water	30°C-90°C (T30/90)
Pipe dimensions	DN20 (3/4"), DN25 (1"), DN32 (1 1/4"), DN40 (1/2"), DN50 (2")
<b>Certifications</b>	
MID R100-H 2004/22 CE	



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### Order Product Numbers (OPN)

Version	OPN
<b>Module only:</b>	
OY1320 LoRaWAN Multi-jet water meter module IP68	TP-T1320-000-1-EU
<b>Complete smart water meter, module and water meter included</b>	
OY1320 LoRaWAN® Multi-jet smart water meter DN20 T50 Q3=4 L190 mm	TP-T1320-C20-1-EU-Q004
OY1320 LoRaWAN® Multi-jet smart water meter DN25 T50 Q3=6,3 L260 mm	TP-T1320-C25-1-EU-Q006
OY1320 LoRaWAN® Multi-jet smart water meter DN25 T50 Q3=10 L260 mm	TP-T1320-C25-1-EU-Q010
OY1320 LoRaWAN® Multi-jet smart water meter DN32 T50 Q3=10 L260 mm	TP-T1320-C32-1-EU-Q010
OY1320 LoRaWAN® Multi-jet smart water meter DN40 T50 Q3=16 L300 mm	TP-T1320-C40-1-EU-Q016
OY1320 LoRaWAN® Multi-jet smart water meter DN50 T50 Q3=25 L300 mm	TP-T1320-C50-1-EU-Q025
OY1320 LoRaWAN® Multi-jet smart water meter DN20 T30/90 Q3=4 L190 mm	TP-T1320-W20-1-EU-Q004
OY1320 LoRaWAN® Multi-jet smart water meter DN25 T30/90 Q3=6,3 L260 mm	TP-T1320-W25-1-EU-Q006
OY1320 LoRaWAN® Multi-jet smart water meter DN25 T30/90 Q3=10 L260 mm	TP-T1320-W25-1-EU-Q010
OY1320 LoRaWAN® Multi-jet smart water meter DN32 T30/90 Q3=10 L260 mm	TP-T1320-W32-1-EU-Q010
OY1320 LoRaWAN® Multi-jet smart water meter DN40 T30/90 Q3=16 L300 mm	TP-T1320-W40-1-EU-Q016
OY1320 LoRaWAN® Multi-jet smart water meter DN50 T30/90 Q3=25 L300 mm	TP-T1320-W50-1-EU-Q025

### Nordic Propeye AB

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Nordic Propeye stands for smart, sustainable choices. We have made it our mission to help our customer to make their real estate and condominiums lean, clean & green.

