



# M WATER

**RADIO SENSOR FOR LPWA NETWORKS**

**MULTIPROTOCOL**



Walk-By | Drive-By or Fixed Network

Up to 15 years lifetime

NFC  
Near Field Communication

FOTA  
Firmware Over the Air

A plug-and-play telemetry solution that allows two-way communication between the meter and the user/utility to contribute to smart water usage. The value of this insights leads to improved systems efficiencies, lower operating costs and, ultimately, improved customer satisfaction.

# RADIO SENSOR/ TECHNOLOGY



## MYWATER offers:

- ✓ **FOTA (Firmware Over The Air)** - Ability of Firmware updates over the network. No need for field intervention
- ✓ **LoRa Technology: 96 daily readings** – carrying out an intelligent data management to minimize the number of messages sent.
- ✓ **wM-Bus Technology** – Messages every 15 secs by default. Configurable.
- ✓ **RTC (Real Time Clock)** – allows a permanent synchronization of the information to enable rigorous water balances.
- ✓ **Bi-directional communication** – allowing remote (re)parametrization.
- ✓ Ability for using the protocols **LoRaWAN** and **wM-Bus individually or simultaneously**.
- ✓ Radio sensor with **direct coupling** – for JANZ meters up to DN50.
- ✓ **Readings:** Buffer up to 1 (one) year.
- ✓ **Communication Interface: NFC (Near Field Communication)** for parametrization and data collection.
- ✓ **Temperature register**
- ✓ **Alarms**

## FUNCTIONAL CHARACTERISTICS

**Dimensions:** 128 x 68 x 31 mm

**Battery lifetime\*:** Standard Profile: Up to 15 years  
Extreme Profile: Up to 8 years

**Electric Power:** Lithium battery - SOCI 3,6 V

**Protection:** IP68

**Operating Temperature:** -10° C to 55°C

**Recommended Warehousing Temperature:** 10°C to 30°C

**Communication technology:** LoRaWAN and wM-Bus

**Certificates:** CE, RED 2014/53/EU, EMC 62311, ETSI 301489, EN 300220 and 62368, RoHS, WEE, LoRaWAN, OMS and NFC in conformity with ISO/IEC 15693.

\*2 transmissions a day (LoRa) depending on the profile and external environmental conditions (coverage, temperature, etc)



# RADIO SENSOR/ TECHNOLOGY

## TECHNOLOGY

» **Innovation** – MYWATER brings a definitive separation between the reading points and the communication infrastructure. This innovative Telemetry solution developed by JANZ allows the integration of water meters in Smart City projects in an easy and efficient way.

» **Installation – Plug & Play** - easy retrofitting or new installations

» **Scalability** - tailored to the customer in density populated urban areas or rural areas. Featuring LPWA network coverage that allows for clear and accurate communication without the need of creating additional network infrastructure.



## TECHNICAL DATA

Model	LoRaWAN	wM-Bus
Frequency	868 MHz / 915 MHz	868 MHz
Modulation/Transmission Mode	Bi-direcional	T1/T2 e C1/C2
Protocol	LoRaWAN	Wireless M-Bus
Potency	14 dBm (25mW) @ 868 MHz 22 dBm (158 mW) @ 915 MHz	14 dBm (25 mW)
Message	51 Bytes	Std OMS 57 Bytes Long 151 Bytes
Security	Encryption AES 128 bits, Data Codification, Multichannel emission	



# SENSOR RADIO/

TECHNOLOGY



## ADVANCED FEATURES

**Volume:** Sends meter index, meter serial number, radio serial number, battery status, Deltas (LoRa Tech.), monthly reading (WM-Bus Tech.) on a predefined time schedule.

**Datalogging:** 1 (one) year of daily readings  
1 (one) year of alarms history  
1 (one) year of temperature recordings  
96 daily deltas

**Transmission:** Data transmission time configurable

## ALARMS

**Leak:** configurable

**Reverse Flow:** configurable

**Under and Over Consumption:** configurable

**Blocked Meter:** configurable

**Magnetic Fraud**

**Mechanical Fraud**

**On demand Alarms-** optional

**Battery Status**

**Temperature out of Operational range**

**Occasional Hardware error**

**Permanent Hardware error**

## TRANSMISSION and MESSAGES

**Standard Profile:** 1 transmission each 12 hours

**Extreme Profile:** 1 transmission each 3 hours

**Software Application:** Unique interface to all IoT communication protocols

**Lifetime:** up to 15 years

## OPTIONS

**External Radio Sensor version** – Can be attached to any meter of any brand or model if equipped with pulse output

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9 0000 0586 (EN) - 03/2023 - p4/4