

WATER METER/ TECHNOLOGY



M/WATER

RADIO SENSOR FOR LPWA TELEMETRY



NB-IoT **LoRaWAN**

IOT
INTERNET OF THINGS
LPWA Conectivity

Low Power

Wide Area

Up to 15 years lifetime

96 Daily Readings

Plug & Play

Telemetry solution that allows bi-directional interaction without human intervention with any equipment or information system contributing decisively to a greater efficiency, optimizing operational costs and increasing service level provided to the customer.

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MYWATER OFFERS:

- ✓ **Sensitivity certification** – which ensures its capacity for outdoor or indoor communication.
- ✓ **96 daily readings** – carrying out an intelligent data management in order to minimize the number of messages sent.
- ✓ **Real Time Clock (RTC)** – allows a permanent synchronization of the information in order to enable rigorous water balances.
- ✓ **A Bi-directional communication** - allowing remote (re)parametrization.
- ✓ **No need of intermediate equipment on the network** – such as concentrators or repeaters nor dedicated and complex network infra-structures.
- ✓ **Radio sensor with direct coupling** - for JANZ counters up to DN50.
- ✓ **External Radio Sensor** - Could attach the external radio sensor to any meter of any brand or model (equipped with pulse output).

TECHNICAL DATA:

Dimensions: 97 x 75 x 55 mm

Battery lifetime: Standard Profile: 12 to 15 years
Extreme Profile: 6 to 8 years

Electric Power: Lithium battery – SOCI 3,6 V

Protection: IP68

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

Rec. Warehousing Temperature: -20°C to 75°C

Communication technology: Sigfox, LoRaWAN e NB-IoT.

Certificates: EN 300-220, EN 301-489, EN60950



CERTIFICATE N.95/CEP341



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TECHNOLOGY

» **Innovation** - MYWATER brings a definitive separation between the reading points and the communication infrastructure that supports them, guaranteeing the separation of competencies between the equipment and the communication. 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** - easier than installing a meter and executable by the same teams.

» **Scalability** – tailored to the customer – in urban densely populated or rural scattered areas. With LPWA network coverage available the development and progress of the projects occur where, when and at as many points as the customer wishes without the need of creating additional network infrastructures.

» **Specialization** – Teams of specialists dedicated to each areas (hardware and communications) put at customers disposal all their experience know-how and expertise guaranteeing the full operability of the installation at all time.

TECHNICAL DATA:

MODELO	Sigfox	Lorawan	NB-IoT
Frequency	868 Mhz - 915Mhz (Z4)	868 Mhz	900 - 1800 Mhz
Modulation	BPSK/GFSK	CSS/FSK	QPSK
Protocol	Sigfox	Lorawan	Narrowband
Potency	up to 25 mW configurable	up to 25 mW configurable	200 mW
Sensivity	14 dBm	14 dBm	23 dBm
Security	AES 128 bits Encryption, Data Codification, Multichannel Emission		
Certifications	CE, Sigfox, LoraWAN, RF, Electrical Safety, CEM		

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ADVANCED FEATURES

Volume: Sends counter index, alarms and deltas at selected time

Datalogging: Registration of 24 daily deltas
Registration of 96 daily deltas

Transmission Time: Allows selecting time data transmissions

ALARMS

Water Leak: configurable

Reverse Flow: configurable

Under and Over Consumption: configurable

Counter blocked: configurable

Fraud

Battery Status

TRANSMISSION AND MESSAGES

Standard Profile: 1 transmission each 24 hours

Extreme Profile: 1 transmission each 6 hours

Message Size: Sigfox - 12 bytes, LoRa - 48 bytes, NB-IoT - 62 bytes

Dedicated Application

Equipment life: Perfil Standard: 12 a 15 anos | Perfil Extremo: 6 a 8 anos

OPTIONS:

MyWater External Radio Sensor - Could attach the external radio sensor to any meter of any brand or model (equipped with pulse output).

