

# WUM-IML-WG Pulser

Advanced IIoT Module for  
Accurate Reading and Remote Control



**WUM-IML-WG Pulser** is a wireless IIoT device with internal configurable logic, designed for remote monitoring and data acquisition from water and gas meters via pulse output, with wireless transmission over the LoRaWAN network.



long-term  
autonomy



LoRaWAN  
connectivity



battery level  
monitoring



remote control &  
configuration



low power  
consumption



protection against  
environmental factors

# FEATURES

## PULSE READING

The module is designed to read pulses generated by water and gas meters. The device can be connected to any meter equipped with a pulse output.

## TEMPERATURE MEASUREMENT

The "Temperature Measurement" function provides additional data on climatic conditions, improving the accuracy and reliability of collected information about water and gas consumption in different environments, while enabling response to various anomalies.

## LOW POWER CONSUMPTION

To ensure a long battery life, the module features low power consumption, characteristic for LPWAN (Low Power Wide Area Network) networks. This allows the device to operate autonomously for extended periods, which is crucial for monitoring remote objects.

## LONG-TERM AUTONOMY

The batteries used provide long-term autonomy, minimizing the need for regular replacement or recharging. The maximum battery life is up to 10 years with a total of 10 000 data transmissions (2-3 times per day) or 7 years with data transmission 4 times per day.

## REPLACEABLE BATTERY

The removable battery allows for easy replacement, extending the device's service life and simplifying maintenance while minimizing operational downtime.

## BATTERY LEVEL MONITORING

The "Battery Level Monitoring" function provides prompt notifications about the battery charge level, warning of potential disruptions due to discharge.

## ALTERNATIVE DATA READING

In the event of potential loss or unavailability of the LoRaWAN network due to network failure, data from the pulse module can alternatively be read using a dedicated wireless configurator, in close proximity to the module.

## PROTECTION AGAINST ENVIRONMENTAL FACTORS

The module is engineered with robust protection against moisture, dust ingress, and external environmental factors, ensuring stable operation under a wide range of climatic conditions.

### DIMENSIONS

Enclosure with clamps	IP65
Dimensions	130 x 52 x 56 mm
Weight including enclosure	84 g

### OPERATIONAL CHARACTERISTICS

Operating temperature	-20...+80 °C
Humidity	up to 92% without condensation

### POWER SUPPLY

Battery	Lithium
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### COMMUNICATION SPECIFICATIONS

Device class	A
Activation	OTAA
Rx Sensitivity	-140 dBm
Tx Transmission power	up to +20 dBm



The **WUM**-IML-WG Pulser module is powered by a long-lasting battery.

This module is a reliable and efficient solution for the remote monitoring of water and gas consumption, making it an optimal choice for automatic remote data acquisition systems.



### LORAWAN COMMUNICATION TECHNOLOGY

The module uses LoRaWAN communication technology for long-range data transmission, ensuring extensive coverage and stable connection even in remote or hard-to-access locations.

### REMOTE CONTROL

The module can be remotely controlled, configured, and monitored via LoRaWAN. This allows system operators to efficiently manage data acquisition processes.

### CONFIGURABLE REPORTING INTERVAL

The "Configurable Reporting Interval" feature enables flexibility in data transmission, allowing adjustment of reporting frequency, optimization of energy consumption, adapting to specific monitoring requirements and improving overall system efficiency.

### MONTHLY ARCHIVE (HOURLY)

The "Monthly Archive (Hourly)" function provides a detailed data history, improving analysis and the ability to identify trends in water and gas consumption, contributing to more efficient resource management.

### CLOUD INTEGRATION

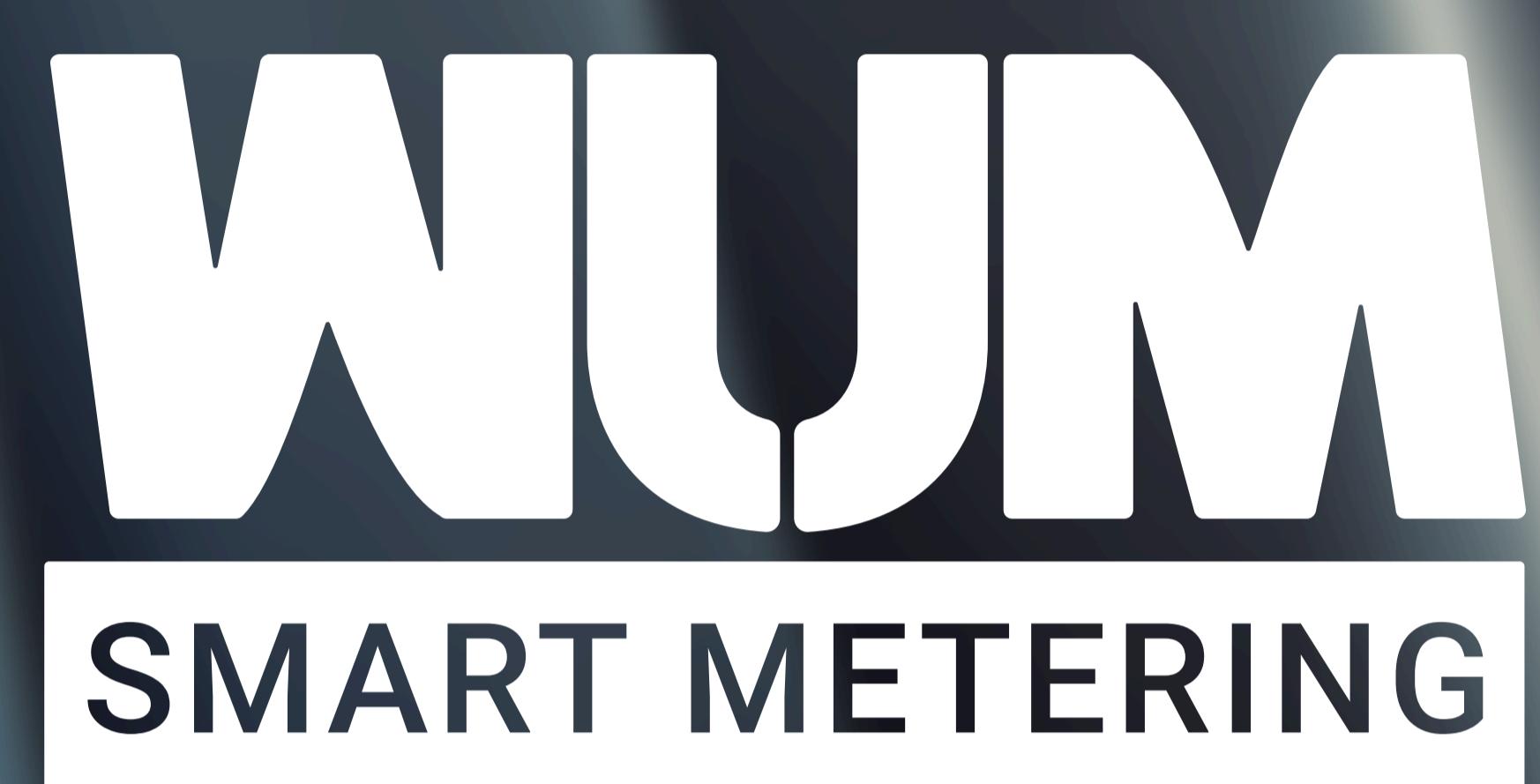
The module easily integrates with cloud platforms for data collection, analysis, and visualization, making it easier to monitor and manage the entire system.

### DATA SECURITY

LoRaWAN communication ensures a high level of security of transmitted information through encryption, preventing unauthorized access to consumption data.

### EASY INSTALLATION AND CONFIGURATION

The module is easy to install and configure, which simplifies system deployment in a variety of environments. The use of a dedicated wireless configurator enables convenient setup of pulse modules without the need for a physical connection to a computer, significantly simplifying maintenance and operation.



## CONTACTS

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