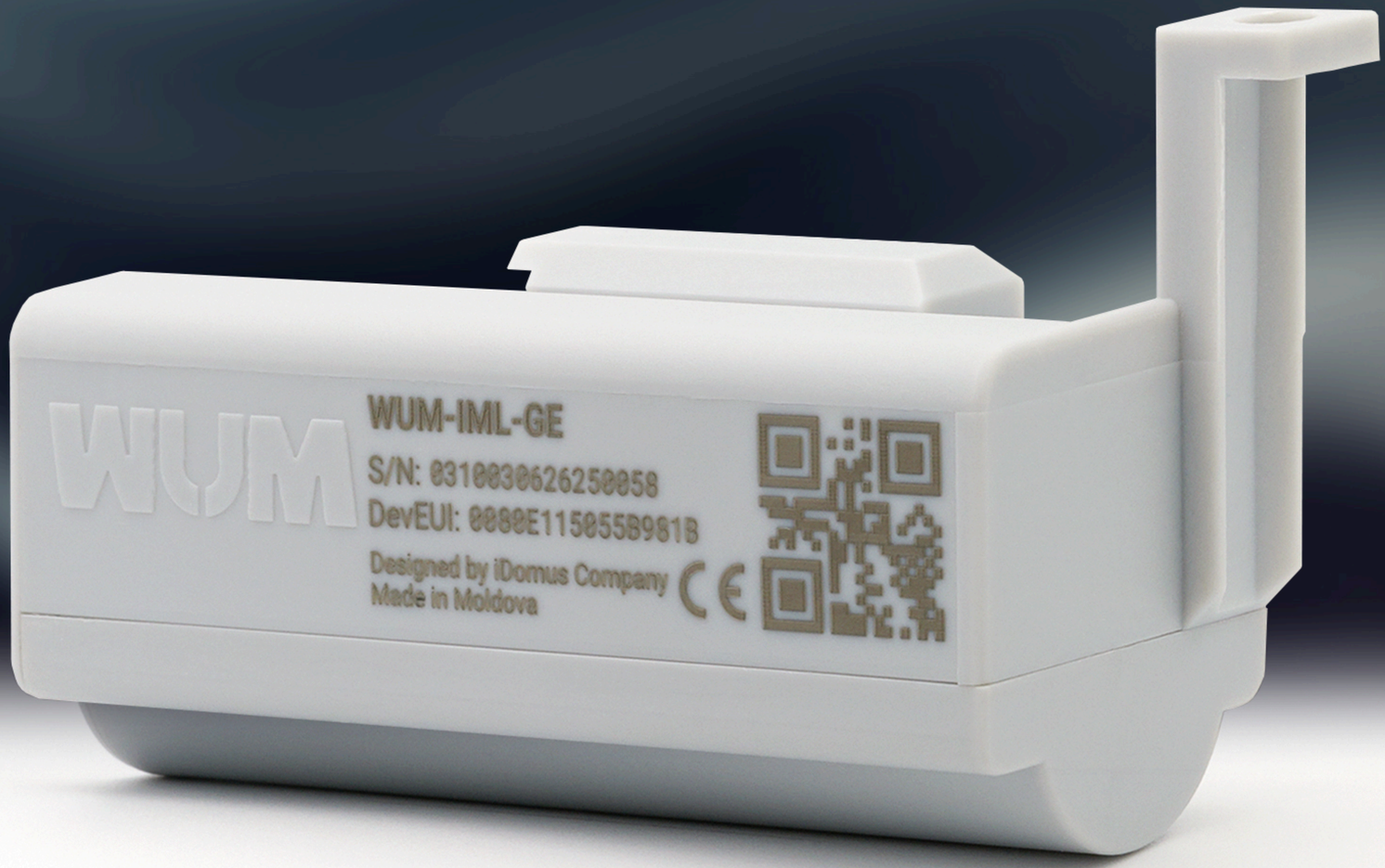
WUM-IML-GE Pulser

Advanced IIoT Module for
Accurate Reading and Remote Control



WUM-IML-GE Pulser is a wireless IIoT device with internal configurable logic, designed for remote monitoring and data acquisition from Elster, Honeywell, and PremaGas gas meters via the 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 the pulses generated by gas meters, using a Hall effect sensor. This ensures precise monitoring of gas consumption.

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.

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 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 detachable battery allows for easy replacement, extending the device's lifespan, while also making maintenance easier and reducing 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.

REACTION TO ENCLOSURE OPENING
The "Reaction to Enclosure Opening" function provides an additional level of security, alerting about unauthorized access and ensuring the device's integrity.

DIMENSIONS

Enclosure with clamps	IP65
Dimensions	54 x 56 x 127 mm
Weight including enclosure	74 g

OPERATIONAL CHARACTERISTICS

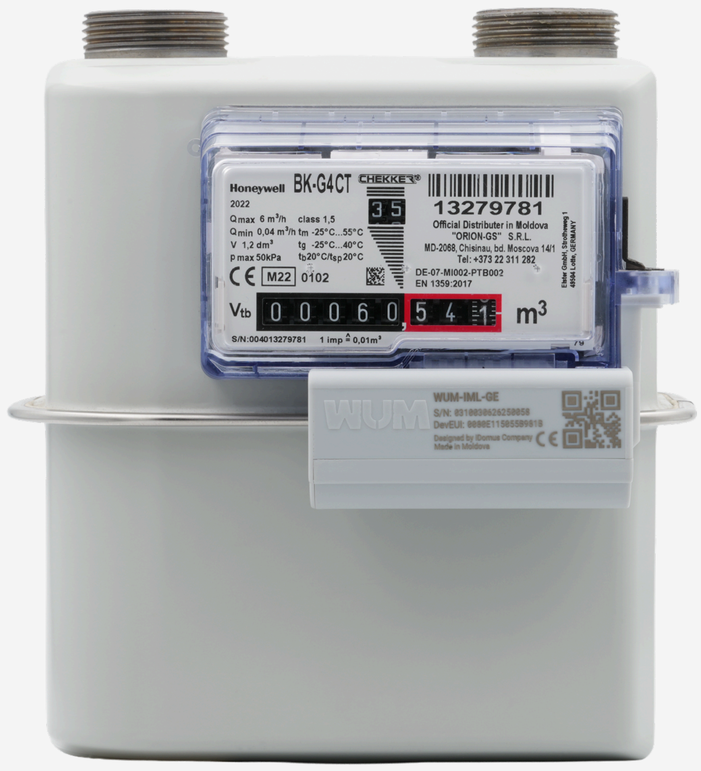
Operating temperature	-20...+80 °C
Humidity	up to 92% without condensation

POWER SUPPLY

Battery	Lithium

COMMUNICATION CHARACTERISTICS

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



The WUM-IML-GE Pulser is powered by a long-life battery.

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

VIBRATION RESPONSE
The "Vibration Response" function ensures immediate detection of interventions, enhancing security and alerting against unauthorized tampering attempts.

RELOCATION RESPONSE
The "Relocation Response" function provides immediate notifications about changes in the device location, enhancing security and preventing potential loss or unauthorized use.

EXTERNAL MAGNETIC FIELD RESPONSE
The "External Magnetic Field Response" function provides an additional level of protection, reacting to possible influences and alerting about potential attempts to disrupt the device.

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

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 gas consumption, contributing to more efficient resource management.

CLOUD INTEGRATION
The module seamlessly integrates with cloud platforms for data acquisition, analysis, and visualization, facilitating efficient monitoring and centralized system management.

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, enabling rapid deployment across diverse environments. A dedicated wireless configurator allows pulse modules to be configured remotely, without physical connection to a computer, significantly simplifying maintenance and setup.

WUM
SMART METERING

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