

# Data Sheet

## WAVIOT Smart Water Meter

### SWM-1™



#### WAVIOT WIRELESS SMART WATER METER

Intended for the registration of cold and hot water consumption with temperatures from 5 ° C to 90 ° C. SWM-1 uses LPWAN WAVIoT network to transmit readings to the cloud. 10-20 miles of data transmission range provides a great scalability characteristics

#### IDEAL FOR BUILDING SMART UTILITY SYSTEM

SWM-1 allows to cover wide area with smart metering devices and deploy a sizable smart network within hours or a couple of days. The WAVIoT Smart Meter SWM-1 is a low cost with highest usability solution for those wishing to rapidly and simply get the benefits of the Smart Metering solution and Internet of Things

#### BACKEND & ANALYTICS

Individual smart meter data is transmitted over the network to data collection gateways and then relayed to data servers. Data can be made available through the WAVIoT web interface or to the client's own application server or ERP

#### WAVIOT Smart water meter features

- License-free ISM radio band
- Proprietary radio protocol Nb-Fi
- Ultra-low power consumption
- A single network with unlimited nodes
- 10-20 miles transmission range in urban area
- Plug and play installation
- Integrated LPWAN radio module
- User-friendly web interface and data API

#### TECHNICAL SPECIFICATIONS

##### Radio

- Output power <25 mW
- Link budget 186 dBm
- Battery voltage 3.6V
- Predefined reporting schedule (adjustable)

##### Microcontroller

- 8052 core CPU
- Low power sleep mode
- 32768 Hz RTC oscillator
- 10 bit ADC
- 64 kB ROM

#### MECHANICAL SPECIFICATIONS

- Dimensions, mm  
110 (80) x 75 x 90
- Weight 800 grams
- Pipe diameter 15 mm
- Pipe length 110 (80) mm
- Operating temperature range +5 to +90°C
- Hourly flow rate  
min 0,015 – max 3 m<sup>3</sup>
- IP67 design
- Magnet detection alarm
- 10 years battery life at two transmissions per day

#### KEY BENEFITS

- 10 miles data transmission range to the gateway
- The internal batteries can last for 10 years
- Extremely cost effective
- Simple installation (ready-to-use)
- High metering sensitivity registering low flowage
- Simple website data analysis and system management
- No GSM-network, SIM-card or external power supply
- Perfect signal penetration from stand pipe location
- Magnet detection sending alarm
- Ideal for residential water metering