

# WMM-868 WIRELESS METERING MODULE

## PRODUCT DATASHEET

The Wireless Metering Module WMM 868 enables wireless reading of water, gas and heat meters that are equipped with a pulse transmitter with dry reed contact or open collector interface. An integrated radio transmitter ensures reliable transmission of consumption data to distant Wireless M-Bus Bridges on basis of the standardized communication protocol EN 13757-4.



### FEATURES

- Equipped with a sophisticated 868.95 MHz ISM radio band transmitter
- Wireless communication complies with EN 13757-4
- Enables reading of meters with difficult access such as shafts or cellars
- Applicable to all types of meters with dry reed contact or open collector interface
- Supports pulse transmitters with 2, 3 and 4 wires with flow direction and manipulation detection
- Suitable for reading water, heat and gas meters
- Periodically transmits consumption data in 8 second intervals
- Equipped with leak detection and alarm generator
- Simple installation on wall mounting plates with snap-in mechanism
- On-site programming using IrDa interface permits configuration of meter type, meter reading, pulse value and address
- Battery-powered, no additional power supplies are required
- Sophisticated power down modes enable a typical battery lifetime of 15 years
- Equipped with a waterproof IP 68 enclosure
- CE (!) R&TTE Approval

## ORDERING INFORMATION

|              |                                  |                                     |
|--------------|----------------------------------|-------------------------------------|
| Product      | WMM-868 WIRELESS METERING MODULE |                                     |
| Model number | 71010-020501EM                   | Equipped with pulse input interface |

## SPECIFICATIONS

### Power Supply

|          |                          |
|----------|--------------------------|
| Battery  | 2 Lithium batteries 3.6V |
| Lifetime | 15 years (typical)       |

### Radio Interface Specifications

|                    |  |                     |
|--------------------|--|---------------------|
| Certifications     | Complies with EN 13757-4 [2005], EN 300220 |                     |
| Modulation         | 868.95 MHz, FSK                            |                     |
| Operation mode     | T1, 100kcps as specified in EN 13757-4     |                     |
| Transmission power | 7 mW                                       |                     |
| RF coverage        | Reading range depends on environment       |                     |
|                    | shafts                                     | depends on material |
|                    | cellar in a building                       | up to 60 m          |
|                    | installation duct in a high rise-building  | up to 70 m          |
|                    | ground floor in a building                 | up to 100 m         |
|                    | outdoors                                   | up to 400 m         |

### Pulse Input Interface Specifications

|              |   |
|--------------|---|
| Pulse input  | Supports pulse transmitters with dry reed contact or open collector interface<br>Suitable for pulse transmitters with 2, 3 and 4 wires with flow direction and manipulation detection |
| Cable length | Equipped with a cable of length 3 m   |

### Mechanical Specifications

|            |                            |
|------------|----------------------------|
| Enclosure  | Waterproof IP 68 enclosure |
| Dimensions | 104 x 104 x 42             |
| Mounting   | Designed for wall-mounting |

### Environmental Specifications

|                   |  |
|-------------------|--|
| Temperature range | -15 °C to +55 °C operating temperature range<br>-15 °C to +55 °C limit for storage and transport |
| Humidity          | ≤ 100% relative humidity   |
| Approvals         | CE (!) R&TTE   |