# FlowPulse M-Bus



## FLOWPULSE PULSE SENSOR WITH M-BUS OUTPUT

FlowPulse M-Bus is a static sensor designed to integrate Maddalena MVM, MVM PLUS C and WMAP EVO water meters into remote reading systems based on the M-Bus protocol. Equipped with a microprocessor and an inductive electronic sensor, it transmits data to a standard M-Bus master compliant with EN 13757 via a two-wire, polarity-independent connection. The device detects the flow direction and any removal from the meter, without affecting its metrological performance. IP68 protection, environmental class C and electromagnetic class E2 make it suitable even for the most demanding technical applications. It can be retrofitted on prepared meters, simplifying the upgrade and retrofit of existing systems.

maddalena®
METERING EXPERTISE

# FlowPulse

## GENERAL FEATURES

- Static pulse emitter with M-Bus output.
- Compliant with the M-Bus EN 13757 standard.
- Equipped with a microprocessor and an inductive electronic sensor.
- Designed for data transmission to a standard M-Bus master.
- Detects any removal from the meter.
- Detects the flow direction.
- Insensitive to mechanical vibrations.
- Can also be retrofitted on prepared meters.
- Easy to install and replace.
- Does not affect meter performance.
- IP68 protection rating.



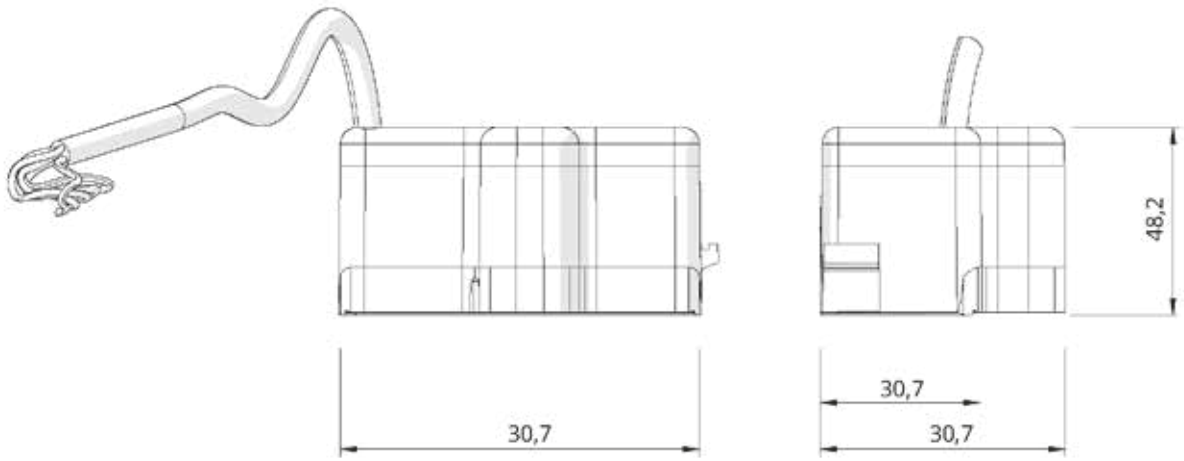
## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Type** | Microprocessor, inductive sensor |
| **Maximum pulse frequency** | 4 Hz |
| **Protection rating** | IP 68 |
| **Operating temperature** | -10 °C ÷ +55 °C |
| **Storage temperature** | -20 °C ÷ +70 °C |
| **Electromagnetic class** | E2 |
| **Environmental class** | C |
| **Power supply** | 3 V lithium battery |
| **Battery service life** | 15 years (average duration under standard conditions) |
| **Standard temperature profile used to calculate battery life** | between -10 °C and +0 °C for 10% of the service life<br>between 1°C and +30°C for 80% of the service life<br>between +31°C and +55°C for 10% of the service life |

## COMPLIANCE WITH STANDARDS

| | |
|---|---|
| EMC Directive 2014/30/EU | RoHS Directive 2011/65/EU and subsequent revisions |
| EN 61000-6-3:2007 | UNI EN14154-3:2005 |
| EN 61000-6-2:2005 | EN 50581:2012 |
| EN 62368-1:2014 + AC:2015 + AC:2017 + A11:2017 | |

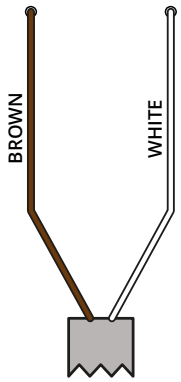
## DIMENSIONS




## CONNECTIONS

| Conductors | Signal | Description |
|---|---|---|
| White | Pulses | Polarity-independent M-Bus connection |
| Brown | Ground | Polarity-independent M-Bus connection |

For installation information, please refer to the instruction sheet.




## COMPATIBLE DEVICES



WMAP EVO



MVM PLUS



MVM PLUS C



MVM

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