

M-Bus communication module for Maddalena SJ EVO and Modularis water meters (other manufacturers)

A state-of-the-art built-in optical sensor detects the revolution of the sweep hand indicating the litres. It also detects the direction of the water flow.

During operation, the module is supplied with power by the M-Bus network. When it is disconnected from the network, it is powered by a built-in battery.

After fitting and sealing the module on the meter with the kit provided, the activation is performed automatically when the cables are connected to the M-Bus network or during configuration via a micromaster or any M-Bus master. Maddalena M-Bus Configurator software (www.maddalena.it) or Relay MBconf software (www.relay.de) can be used to change the factory settings or align the module's reading with the meter's registration.

The module transmits via M-Bus the current reading and other information such as the periodic reading, 13 historical reading, backflow volume, backflow and leak alarm.



TECHNICAL SPECIFICATIONS

Pulse factor	1 pulse = 1 litre
Bidirectional mode	Yes
Output	M-Bus standard, EN 13757
Maximum pulse frequency	2 Hz
Data managed (M-Bus frame)	ID, current reading, periodic reading, 13 historical readings, backflow, backflow alarm, leak alarm
Cable	Bipolar cable (white and brown); no polarity requirements
Cable length	1 m
Battery lifetime with M-Bus power supply	Up to 12 years
Battery lifetime without M-Bus power supply	1.5 years
Environmental class	C
Electromagnetic class	E2
Protection rating	IP68, resin potted electronic sensor
Operating temperature	-10 °C ÷ +55 °C
Storage temperature	-20 °C ÷ +70 °C
Reference standards	EN 61000, EN 14154-3, EN 13757-2, EN 13757-3

For complete instructions, please refer to the installation guide.