

M-Bus communication module for Maddalena's CD SD EVO water meters and Modularis meters (other manufacturers.)

A built-in latest generation 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 powered 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 using 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's software M-Bus Configurator (www.maddalena.it) or Relay's software MBconf (www.relay.de) can be used to change the factory settings or to 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

Protection rating	IP67, resin potted electronic sensor
Environmental class	C
Electromagnetic class	E2
Pulse factor	1 pulse = 1 litre (max. 2 pulses/litre)
Bidirectional mode	Yes
Output	M-Bus standard, EN13757
Cable	Bipolar cable (white and brown); no polarity requirements; length 1 m
Data managed (M-Bus frame)	ID, current reading, periodic reading, 13 historical readings, backflow, backflow alarm, leak alarm
Operating temperature	-10 °C ÷ +55 °C
Storage temperature	-20 °C ÷ +70 °C
Battery lifetime with M-Bus power supply	Up to 12 years
Battery lifetime without M-Bus power supply	1.5 years
Reference standards	EN 61000, EN 14154-3, EN 13757-2 e EN 13757-3