

## Modularis One

COMPACT WIRELESS M-BUS RADIO MODULE FOR MODULARIS WATER METERS SERIES.






Modularis One is a quick, simple and reliable way of collecting data and detecting abnormalities in the behaviour of the water meter.

Universal radio module fully compatible with water meters brands like Wehrle, Maddalena, Wasser Gerate, etc.

Designed for remote data reading and collection, the operation of the module is based on the principles of induction, which means that it is not subject to magnetic field disturbances. The internal sensor calculates volume, detects flow directions and manages alarms like: overflow, backflow, leak, low battery, magnetic field tamper and module removal. All alarms have a factory-set alarm threshold that can be customized to the individual needs of the user.

### data transmission modes:









-  short frame - current volume, reverse flow counter, alarms, meter serial number, date and time, last month summary
-  long frame – short frame and additionally history of meter readings (from 1 to 15 months), history of alarm occurrences in individual months (from 1 to 15 months)
-  long+ frame – the same as long frame and additionally history of reverse flow (from 1 to 15 months)

Easy to install and configure - mounted directly on the water meter, no special cables needed. The radio module can be configured using a dedicated RangeOne W-Mbus/Bluetooth transmitter and the Route One Android application.

Modularis One complies with European EN 13757 standards. It is fully compatible with devices and systems operating in accordance with the W-Mbus protocol and compliant with OMS standard requirements.

# Modularis One

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-  Inductive sensor - impervious to magnetic tampering, dirt- and damp- resistant
-  Bidirectional radio communication 868 MHz for reading and reconfiguration
-  Expanded monitoring and alarm reporting capabilities
-  Compatible with most Modularis-series based water meters brands like Wehrle, Maddalena, G2Misuratori, Wasser Gerate, Bernhardt, Siemens, etc.
-  Configurable range of transmitted data (short frame, long frame, long+ frame)
-  Flexible broadcasting calendar with configurable date, timezones and interval ranges
-  Drive-by and fixed network remote data reading
-  Compact size, direct mount, no cables needed

## TECHNICAL FEATURES

Radio frequency / power	868 MHz/10 mW
Radio protocols	W-Mbus EN13757-4, OMS Ready*
Transmitted Data	Short frame, long frame, long+ frame
Alarms	Overflow, backflow, leak, low battery, magnetic field tamper and module removal
Configuration	Radio with Range One W-Mbus/Bluetooth transceiver and Route One Mobile app.
Sensor technology	Inductive, bidirectional, fraud proof
Signal coverage	300 m in line of sight
Measure Sensibility	1 liter
Power Supply	Lithium battery 3.6V
Battery life	11 years**
Size (Length/Width/Height)	64 mm / 38 mm / 40 mm
Weight	36 g
Protection class	IP54 (IP68 optional)
Storage Temperature	from -20°C to +65°C
Working Temperature	from 0°C to +55°C

\* compliant with OMS standard requirements, not certified.

\*\* with recommended factory configuration.