

WMBus Smart+

Compact wireless m-bus radio for the apator powogaz water meters






WMBus Smart+ 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 Smart+ and Smart C+ family water meters from APATOR Powogaz.

Designed for remote data reading and collection, the operation of the module is based on the principles of light reflection, 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.

WMBus Smart+ 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.

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- Optical sensor - impervious to magnetic tampering
- Bidirectional radio communication 868 MHz for reading and reconfiguration
- Expanded monitoring and alarm reporting capabilities
- Compatible with Smart+ and Smart C+ single jet water meters series
(flow rate: from 1.6m³/h up to 4m³/h)
- 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	Optical, 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 (Diameter/Height)	66 mm / 34 mm
Weight	45 g
Protection class	IP65
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.