



METERING SOLUTIONS



## COMMUNICATION MODULE APT-VERTI-1

The APT-VERTI-1 communication module is an RF intermediate transmission device to communicate between RF data output meter modules and a meter-reading collector's app installed on a mobile device. The primary function of the communication module is to convert the data signals between an RF interface operating in the ISM 868 MHz band and a Bluetooth/USB interface. The communication module is controlled by the meter-reading collector's app installed on a mobile device, and listens for and receives spontaneous T1 mode RF data frames. It can also read configuration data in the two-way T2 mode. The communication module is the next-generation of data converter, featuring an extremely sensitive radio receiver and a data reading success rate much higher than possible with legacy data converters. This enables the reading of metering data via the APT-VERTI-1 much faster and at a greater distance from the data transmitter.

### USE

The APT-VERTI-1 communication module transfers readings from Apator Powogaz brand metering devices, including water meters, heat meters and heat cost allocators in remote meter reading collector systems (operated in walk-by or drive-by modes). The communication module supports RF devices that transmit over a Wireless M-Bus to a collector app installed on a mobile device (such as a smartphone or tablet).



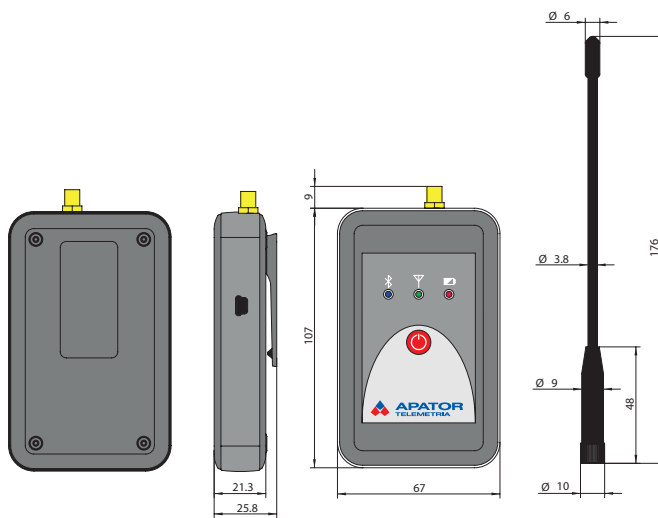
## KEY FEATURES

- Intermediate data relay between RF-interface devices and mobile apps, for data reading and configuration over a Wireless M-Bus
- Two app interfaces available: Bluetooth and USB
- Power saver mode
- Enhanced reading mode
- Battery status LED
- Customizable with an external RF antenna

Table 1. SPECIFICATION

	APT-VERTI-1*
Power supply	Li-ion battery pack
Continuous operating time	max. 24 h
Battery charging time	max. 6 h
Transmission frequency	868.95 MHz in T1 868.30 MHz in T2
Receiver sensitivity	-110 dBm
Operating temperature range	0°C to 60°C
Ingress protection rating	IP30
Weight	130 g
Antenna height	176
Module height	116
Module width	67
Module depth	25.8

\* See the User Manual for the full specification of supported devices.

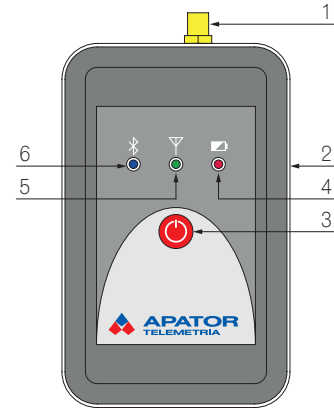


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## REGULATORY AND STANDARD COMPLIANCE

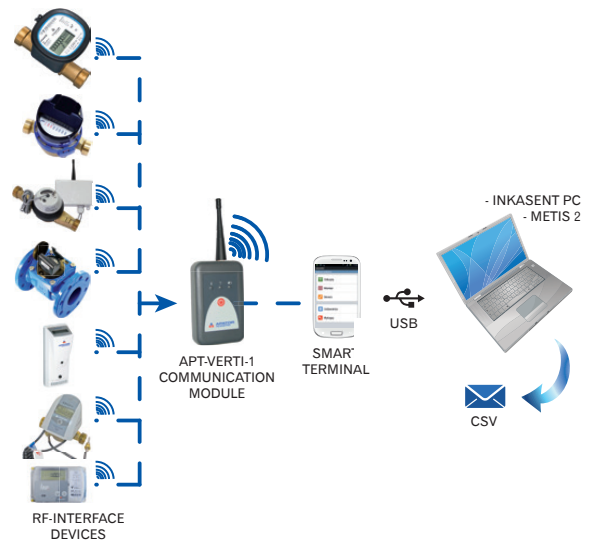
- 2014/53/EU Radio Equipment Directive (RED)
- RoHS 2
- Supports Wireless M-BUS and OMS compliant devices

## KEY DEVICE HOUSING FEATURES



1. RP-SMA RF antenna port
2. Mini USB-A port
3. On/Off/Bluetooth selector button
4. Power LED
5. Rx LED
6. Bluetooth Connected LED

## SAMPLE REMOTE READING CONNECTION DIAGRAM



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