

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. APT-VERTI-1 also works in the C1 one-way transmission 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.

Regulatory and standard compliance

- 2014/53/EU Radio Equipment Directive (RED)
- RoHS 2
- Supports Wireless M-Bus
- Cooperates with devices working in OMS standard

water&heat

Application

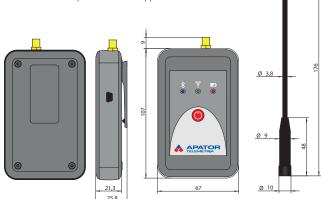
The APT-VERTI-1 communication module transfers readings from Apator Powogaz brand metering devices, including water meters, heat meters and heat cost allocators in remote meter reading collector systems (operated in walk-by or drive-by modes). The communication module supports RF devices that transmit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

Key features

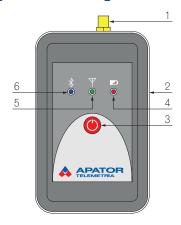
- Intermediate data relay between RF-interface devices and mobile apps, for data reading and configuration over a Wireless M-Bus
- Two app interfaces available: Bluetooth and USB.
- Power saver mode.
- Enhanced reading mode.
- Battery status LED.
- Customizable with an external RF antenna.

Table 1. Technical data

| | APT-VERTI-1* |
|--|--|
| Power supply | Li-ion battery pack |
| Continuous operating time | up to 24 h |
| Battery charging time | up to 6 h |
| Transmission frequency | 868.95 MHz – mode T1, C1 868.30 MHz – mode T2 |
| Receiver sensitivity | -110 dBm |
| Operating temperature range | 0°C ÷ 60°C |
| Ingress protection rating | IP30 |
| Weight | 130 g |
| Antenna height | 176 mm |
| Module height | 116 mm |
| Module width | 67 mm |
| Module depth | 25,8 mm |
| * See the User Manual for the full specification of supported devices. | |

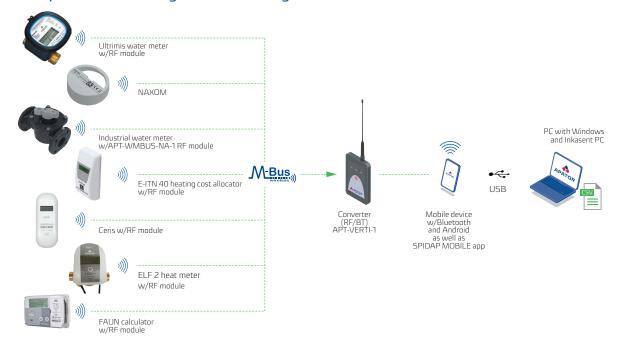


Key device housing features



- 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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