

## Wireless M-Bus USB Adapter with SMA connector

### Key Features

- Wireless M-Bus interface for PCs and mobile terminals via USB with SMA connector for an external antenna
- Range up to 3000 m
- Communication via virtual COM port
- Wireless M-Bus according to EN13757-4:2013 standard
- OMS (Open Metering System) standard supported
- wM-Bus mode N
- Conforms with EU R&TTE 1999/5/EC directive



### Description

The AMB3665-M is based on the Wireless M-Bus radio module AMB3626-M providing a plug and play PC communication link via USB interface. It allows PCs or service-terminals to communicate with electricity-, gas- or water-meters via the wM-Bus interface. It simplifies the installation, the testing or maintenance of the radio-interface of data concentrators or MUCs. The integrated microprocessor controls the entire data communication as well as block- and checksum-creation. Data packets are built and transmitted according to EN13757-4.

The USB-adapter is versatile configurable and supports the N modes according to the wireless M-Bus specification. The quality of the radio link can be assessed by using the measured field strength, the RSSI value. The graphical user interface of the free windows application „AMBER-ACC" allows for easy configuration of the operating parameters.

Combined with a suitable antenna it is possible to reach ranges up to 2000 m. It is also possible to operate the USB-stick in a shielded environment (e.g. a steel cabinet), by means of leading the antenna to the outside via cable.

### Interfaces

The device is connected either via a virtual COM port or directly via USB using the corresponding software API. The USB controller (FTDI FT232R) supports USB 2.0 (full speed). The corresponding drivers may be downloaded from the FTDI homepage.

The software-interface is identical to the AMB3626-M and is described in the corresponding manual.

### Scope of Application

The USB adapter is designed for automatic meter reading / smart meter reading applications according to EN13757-4 (wireless M-Bus). It is ideally suited for the easy integration of PCs, mobile terminals and service terminals into a wireless M-Bus network for test and maintenance work.

## Specifications

|                  |                 |                                                        |
|------------------|-----------------|--------------------------------------------------------|
| Performance      | Range*          | up to 3000 m                                           |
|                  | RF data rate    | 2.4 / 4.8 / 38.4 kbps                                  |
| Radio Technology | Frequency range | 169.40625 to 169.46875                                 |
|                  | Channel spacing | 169.40625 MHz + k • 0.0125 MHz k=[0.5]<br>169.4375 MHz |
|                  | Modulation type | GFSK, GMSK, 4 GFSK                                     |

\* Range stated is assuming line-of-sight. Actual range will vary based upon destination device, antenna selection, and environment.

## Ordering Information

| Item no. | Description                                         |
|----------|-----------------------------------------------------|
| AMB3665  | Wireless M-Bus USB stick/adapter with SMA-connector |
| AMB1930  | SMA antenna                                         |



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