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“LOCAL M-BUS” SYSTEM

In the “Local M-Bus” system, the receiver is permanently installed in the building where it logs consumption data.
The system consists of a centralized datalogger and an M-Bus network to which all the accounting devices (thermal energy meters and domestic meters) and the datalogger itself are connected.

The consumption data is read locally via the display or MMC memory card.

PRODUCT RANGE

6578C

M-Bus datalogger for DIN-rail installation with display and GSM/GPRS data transmission.

TECHNICAL SPECIFICATIONS

- Power supply 230 Vac - 50/60 Hz
- Colored LEDs for operation diagnostics and fault indication
- LCD display
- MMC reading reports extraction
- Datalogger settings and data reading of M-Bus network can be carried out by sending text messages from any mobile phone
- Export read reports in CSV format
- Sending reading reports to one or more e-mail addresses (up to 4)

Code	Type	Price €	Unit/Box
651 0423	max. 250 units		1/4

ACCESSORIES AND SPARE PARTS

SCMEM

MMC memory card for 128 MB data transfer

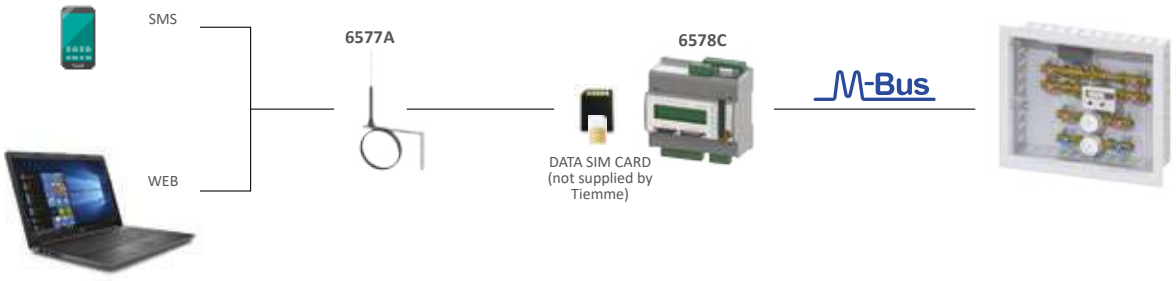
Special accessory for local reading

Code	Type	Price €	Unit/Box
651 0651	128 MB		1/100

"REMOTE M-BUS" SYSTEM

In the "remote M-Bus" system, the receiver is permanently installed in the building where it logs consumption data.
The system consists of a centralized datalogger and an M-Bus network to which all the accounting devices (thermal energy meters and domestic meters) and the datalogger itself are connected.

The reading of the consumption data is performed remotely by sending an e-mail message through the GSM/GPRS network, the device must be equipped with data SIM card (not supplied by Tiemme).



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- Sending reading reports to one or more e-mail addresses (up to 4)

Code	Type	Price €	Unit/Box
651 0423	max. 250 units		1/4

ACCESSORIES AND SPARE PARTS

6577A

Compact antenna for GSM applications. External wall mount, 3 m cable

Specific remote reading accessory to match with SIM card (not supplied by Tiemme)

Code	Type	Price €	Unit/Box
651 0435	GSM		1/10

WHAT IS THE M-BUS NETWORK

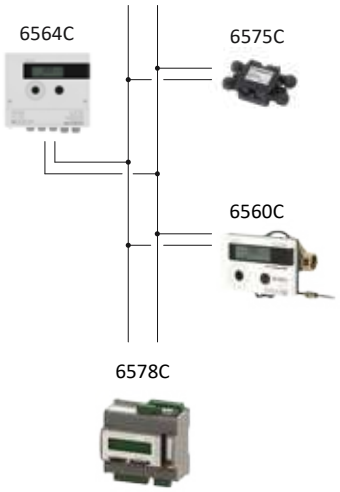
The M-Bus is a communication interface according to European standards EN 1434 and EN 13757, conceived in Germany. It has quickly become a standard for thermal energy, water, gas and electricity meter reading systems .

The M-Bus network consists mainly in the laying of a double conductor cable with specific features (J-Y-ST-Y 2 x 0,8 mm - resistance 75 Ω/km - capacity 150 nF/km) along which the calorimeters are connected according to specific layouts.

It is mandatory to lay the cable inside dedicated pipes for communication cables and not inside sections with loaded power cables, in order not to affect the data transmission/correctness. One end of the cable is then connected to the pulse datalogger, which must be chosen appropriately because it has a maximum number of peripherals (meters) that can be connected according to the specific model.

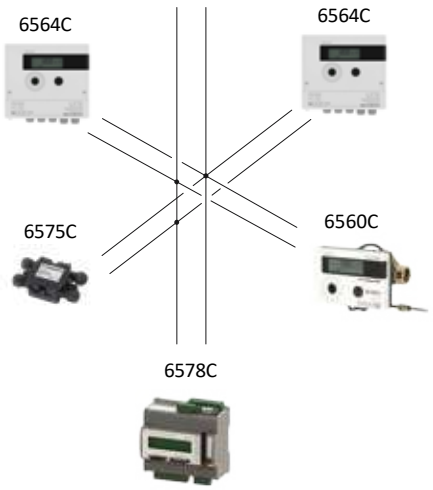
No termination is required at the other end of the cable nor any grounding. The laying of an M-Bus network must be entrusted to qualified personnel who must respect some specific parameters such as the type of installation (see diagrams below), the type and length of the cable, so to ensure a correct functioning and therefore a correct reading of the measurements carried out by the meters/calorimeters.

M-Bus network

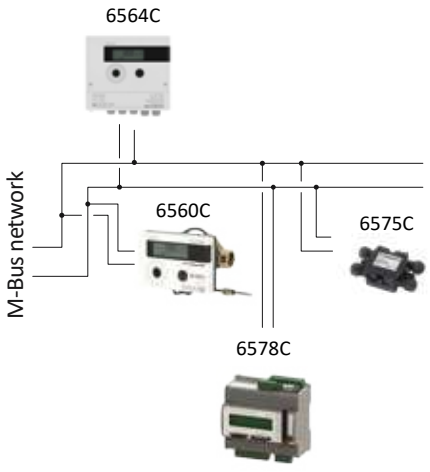


BACKBONE

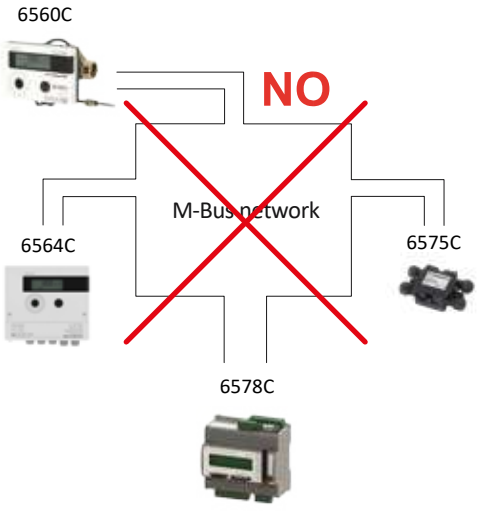
M-Bus network



STAR



TREE



RING

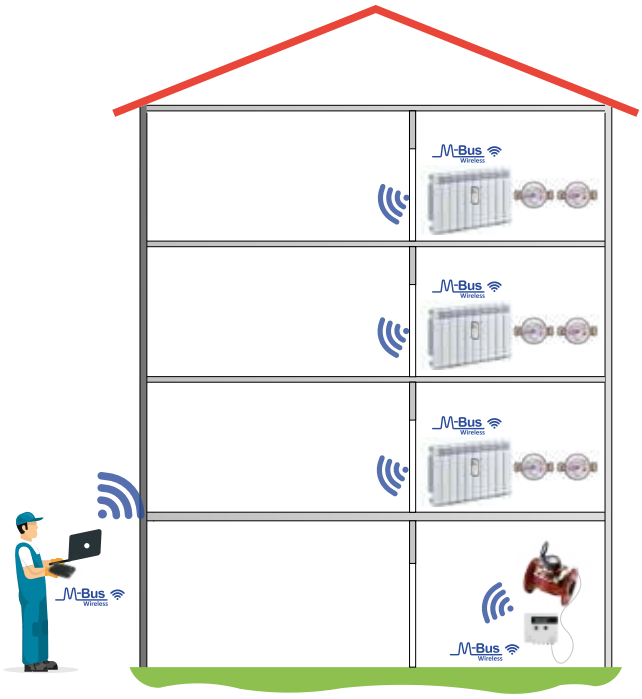
Radio dataloggers are electronic data collection devices;
They acquire thermal energy and domestic water consumption data from all the devices that make up the system (heat dividers, heat energy meters and volumetric meters) equipped with a 868 MHz radio communication interface compliant with Wireless M-Bus (EN 13757).

The consumption data is read needing no access to the property units and therefore bothering no neighbor. The data acquisition can take place in different ways according to the requirements of the single building:

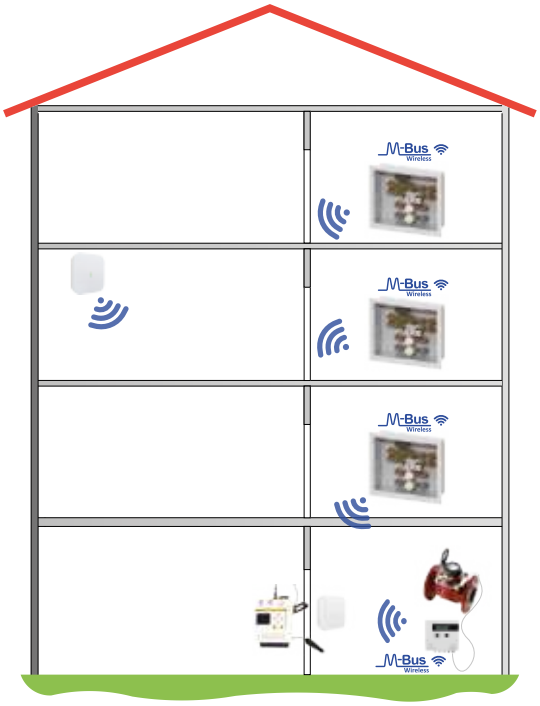
- **WALK-BY:** using a device provided by the staff responsible for taking readings.
- **CENTRALIZED:** by installation inside the building of a suitable device for receiving and storing consumption data.

The single possibilities are summarized on the following pages in order to properly choose the components of the system:

WALK-BY DATA CAPTURE



CENTRALIZED DATA CAPTURE

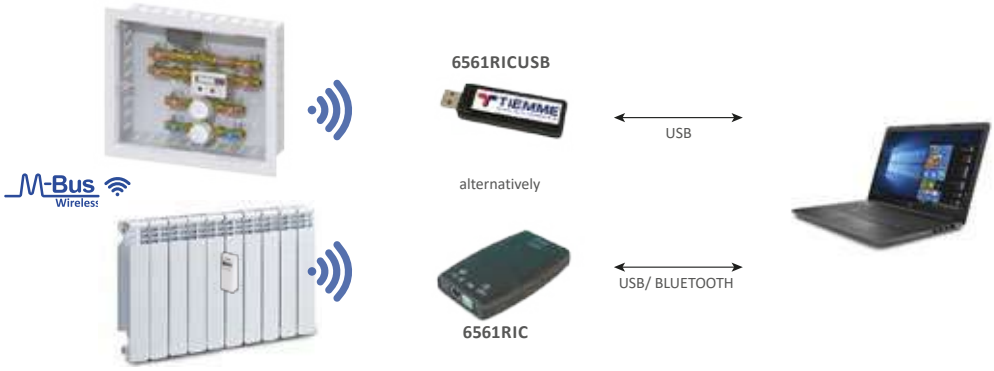


SOLUTION A: "FIXED RADIO SMART KIT" SYSTEM
Connect the PC to the logger using an ethernet cable

SOLUTION B: "REMOTE RADIO SMART KIT" SYSTEM
Data transmission to PC via router

In the “walk-by” system the radio receiver is mobile, that is to say at the disposal of the reader who is to be near the meters requiring no access to the installation point of the latter.

The walk-by reading mode allows the choice between two different devices, radio transceiver for mobile reading of consumption data or USB radio transceiver to be inserted in the notebook used for reading and managing data.
Both devices provide for the matching with appropriate reading software to be installed on PC/tablet for the management of the collected data.



PRODUCT RANGE

6561RICUSB

USB transceiver for receiving and storing consumption data of 868 MHz WIRELESS M-Bus radio meters.

Code	Type	Price €	Unit/Box
651 0559	USB 868 MHz radio transceiver		1/1
651 0475	License + PC/tablet mobile reading software		1/1

6561RIC

Transceiver for receiving and storing consumption data of 868 MHz WIRELESS M-Bus radio meters.

Code	Type	Price €	Unit/Box
651 0474	Mobile transceiver		1/1
651 0475	License + PC/tablet mobile reading software		1/1

“FIXED RADIO SMART KIT” SYSTEM

In the “fixed Radio Smart Kit” system, the radio receiver is permanently installed in the building whose consumption data it collects. The system consists of a centralized logger and a self-setting network of allocators for collecting the information of the devices present.

By connecting the Datalogger directly to the PC via Ethernet connection, the consumption data can be read out.
Datalogger can read up to 500 devices.

PRODUCT RANGE

6582RIC

Datalogger for receiving and storing consumption data of 868 MHz WIRELESS M-Bus radio meters.

Repeater included.

Maximum connected devices: 500 (+ 20 wired M-Bus devices)

Code	Price €	Unit/Box
651 0528		1/1

6582

Radio repeater/receiver for receiving consumption data of 868 MHz WIRELESS M-Bus radio meters.

“Multi-hop open” feature allows you to extend coverage network when used with other repeaters

Code	Price €	Unit/Box
651 0529		1/1

"REMOTE RADIO SMART KIT" SYSTEM

In the "Remote Radio Smart Kit" system, the radio receiver is permanently installed in the building whose consumption data it collects.
The system consists of a centralized datalogger and a self-setting network of allocators for collecting the information of the devices present.

The data is sent to the PC via a wireless connection with a 3G router.
Datalogger can read up to 500 devices.

PRODUCT RANGE

6582RIC

Datalogger for receiving and storing consumption data of 868 MHz WIRELESS M-Bus radio meters.

Repeater included.

Maximum connected devices: 500 (+ 20 wired M-Bus devices)

Code	Price €	Unit/Box
651 0528		1/1

6582

Radio repeater/receiver for receiving consumption data of 868 MHz WIRELESS M-Bus radio meters.

"Multi-hop open" feature allows you to extend coverage network when used with other repeaters

Code	Price €	Unit/Box
651 0529		1/1

6582R

Compact 3G router with wireless and Ethernet connections.

Possibility of remote transmission of metering data by means of combination with datalogger art. 6582RIC

SIM card for data transmission not provided by Tiemme

Code	Price €	Unit/Box
651 0530		1/1

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