Mobile data logger WTZ.MB

Radio receiver for all Q walk-by measuring devices

The Q walk-by system makes wireless meter-reading possible. It is no longer necessary to enter private or business premises. Measuring devices especially adapted to the system transmit the recorded data within a configurable time window.

The mobile data logger receives the data transmitted by the measuring devices and forwards these via Bluetooth to a mobile computer (netbook / PDA).

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Application

The mobile data logger is part of the Q walk-by system.
In connection with a mobile computer (netbook / PDA) and the readout software ACT46.PC, the mobile data logger can be used for the following tasks:

~ Wireless readout
~ Fault diagnosis of Q walk-by systems

Typical users are:
~ Metering service companies
~ Housing associations
~ Property management companies

Functions

~ The mobile data logger stands out on account of its extremely straightforward operation and can be used immediately without configuration
~ The use of extremely high-performance radio and Bluetooth technologies makes it possible to collect consumer data without entering private or business premises
~ The sturdy housing and bag provided protect the electronics from mechanical damage, dust and humidity
~ To go easy on the battery resources, the device automatically ends Bluetooth activity after 3 minutes of non-use and switches to sleep mode, sleep mode is ended by pressing the on/off switch

Type summary

The Q walk-by readout system is available as

~ A set including netbook (WTZ.WBSET-10/PC) or
~ A set included Bluetooth USB stick (WTZ.WBSET-2/PC) for retrofitting netbooks of your choice.

The individual sets are made up of the following components:

WTZ.WBSET-10/PC

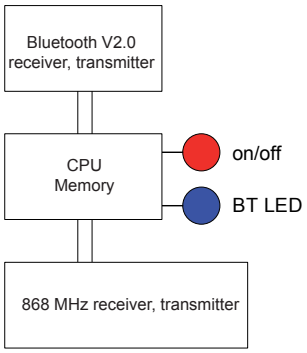
~ Netbook with German operating system
~ Software for Q walk-by (ACT46PC) in German, English, Italian, French and from 03.01.2013 in Turkish
~ Mobile data logger (WTZ.MB)
~ Bag for mobile data logger
~ Transport case with foam insert
~ Four batteries of the type Mignon AA
~ Documentation on CD

WTZ.WBSET-2/PC

~ Software for Q walk-by (ACT46PC) in German, English, Italian, French and from 03.01.2013 in Turkish
~ Mobile data logger (WTZ.MB)
~ Bluetooth USB stick
~ Bag for mobile data logger
~ Four batteries of the type Mignon AA
~ Documentation on CD

Technology

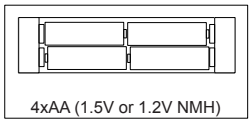
The mobile data logger is made up of the following components:



~ A 868 MHz receiver (radio module) as well as a Bluetooth Class 2 module make communication with the Q walk-by system possible

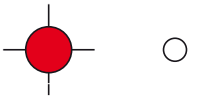
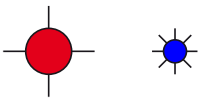
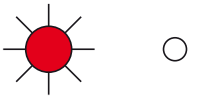
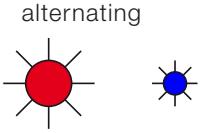
~ The device is equipped with a switch with integrated red LED for switching on and off. The red LED signalises the voltage state of the device

~ The blue LED is for monitoring Bluetooth communication

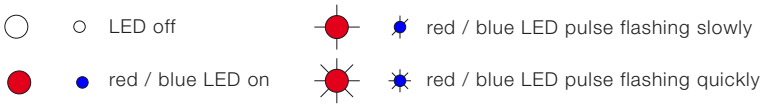


~ Voltage supply is through four batteries or rechargeable batteries of the type AA (Mignon). Operating time depends on the capacity of the batteries used. Alkali-manganese batteries or nickel-metal-hydrid rechargeable batteries are recommended to guarantee long periods of operation for the mobile data logger. The correct polarity of the batteries is marked in the battery compartment

LED behaviour

	Explanation
	Switch off: Device is switched off Switch on: Device in sleep mode
	Device is ready for operation Device is not registered and coupled with a communication partner
	Device is not ready for operation Operating voltage is too low
	Readout to follow
	Operating voltage has fallen to less than 4.5 V Readout can be continued Change battery as soon as possible
	Device is not ready for operation Radio module not active
	Device is not ready for operation Bluetooth module not active
alternating 	Device is not working properly. This fault can be eliminated by rebooting the device. If a reboot does not solve the problem, there is a serious malfunction. Device should be sent in for repair.

Key:



Ordering

The part number of the set required and the accessories required must be given in the order.

Technical data

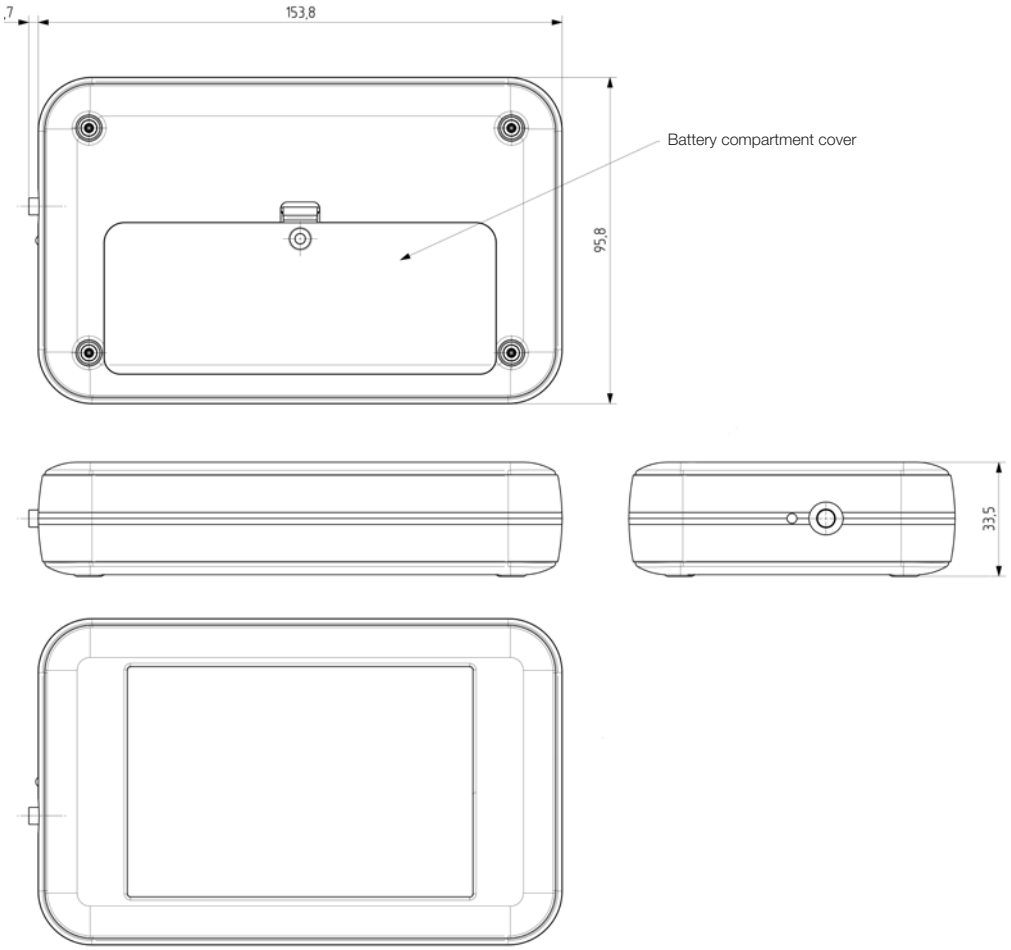
General device data

Bluetooth Version Interface profile HF output power Sensitivity	 V2.0 Serial port profiles Typ. -2 dBm Typ. -72 dBm
Radio interface 868 MHz Sensitivity	 Typ. -100 dBm
Operating voltage	4.2 V to 6 V DC
Current consumption Standby In operation	 <5 mA Typ. 35 mA @ 6 V
Permissible ambient temperature during transport during storage and in operation	 -25 °C to max. +60 °C 0 °C to max. +55 °C
Relative air humidity	30 % to 75 %

Standards and norms

CE conformity	RTTE 1999/5/EC
Protection rating	IP 40 according to EN 60529
Electromagnetic compatibility Interference resistance	 EN 55024 and EN 61000-6-2 (for industrial environment)
Emitted interference	EN 55022 – Class B
Security of IT equipment	EN 60950
Electromagnetic compatability and Radio spectrum Matters (ERM) - Short Range Devices (SRD) - Radio equipment to be used in the 25 MHz to 1000 MHz frequency range	EN 300 220

Dimensional drawing



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