



# Mobile Data Collector

## Q log 5.5 v0.6

Radio receiver for all Q walk-by measuring devices

The mobile data logger receives the data transmitted by the measuring devices and forwards these via Bluetooth to a mobile computer.

## Application

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The mobile data logger is part of the Q walk-by system.

In connection with a mobile computer 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
- 】 Parallel forwarding of S-mode and C-mode radio protocols to the mobile computer

Typical users are:

- 】 Metering service companies
- 】 Housing associations
- 】 Property management companies

## Functions

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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.

In the range of the meters, the mobile data logger receives the meter data in real time. If the mobile data logger is logged into the mobile computer as a communication partner, the data is immediately forwarded to the data recording system (ACT46.PC).

The sturdy housing protects the electronics from shocks and impacts.

In the event of a disruption of the power supply, continuous data backup on the mobile computer makes data loss nearly impossible. After restoring operational readiness, the readout process can be continued seamlessly.

To conserve battery resources, the mobile data logger switches off 5 minutes after being switched on if no Bluetooth connection is established with the ACT46.PC.

## Operating modes

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The Q log 5.5 receives two radio operating modes (S-mode and C-mode) and forwards the data to the data recording system on the mobile computer.

### S-mode features:

S-mode is 100% compatible with the tried-and-tested radio system with the hitherto familiar radio characteristics of the walk-by radio system.

"S-mode" describes the radio system known for many years now with all its radio properties and handling.

### C-mode features:

C-mode is a new and improved radio system. This radio system features twice the data rate and short telegrams. C-mode is much more energy-efficient and allows more frequent data transmission. Its radio performance was improved considerably.

The full performance is available to you with the necessary meters and readout equipment. (Data logger, software for displaying and processing the consumption data.)

### Mixed operation S-mode and C-mode:

Mixed operation (S-mode and C-mode devices) on a property is possible starting from version V0.6 of the Q Log 5.5. The ACT.46PC is designed for the parallel recording of consumption data starting from version 1.7.x.x.

## Technology

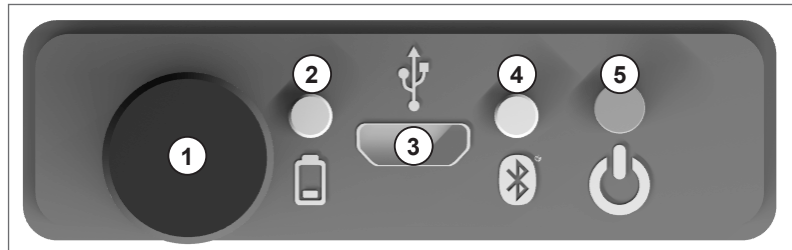
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The 868 MHz receiver and a Bluetooth 4.1 Smart Ready make communication with the Q walk-by system possible. The mobile data logger Q log 5.5 V0.6 has the following characteristics:

- 】 On and off switch
- 】 Two multi-coloured LEDs provide information about the communication and device statuses
- 】 The power supply has a permanently installed li-ion battery
- 】 The battery is charged via a micro USB socket
- 】 Standard power packs(\*) can be used to charge the battery (5 V DC)
- 】 A charging cable (micro USB - USB) is included in the scope of supply
- 】 A 868 MHz radio antenna
- 】 An 8-digit ID on the back of the data logger for identification in the ACT46.PC

(\*) A power pack is not included in the scope of supply.

## Control and signal elements



1. Antenna
2. LED - Battery charge level
3. Micro USB socket
4. LED - Commissioning and Bluetooth activity
5. On and off switch

## LED flashing behaviour

### Action

Switch on device. - (press on/off button for 3 seconds)		
Device is switched on and ready for use.	④	LED flashes <b>green</b> once a second
Device is switched on and ready for use Readout via the ACT46.PC in progress.	④	LED flashes <b>blue</b> once a second Communication active, consumption protocols being transmitted.
Battery is fully charged.	②	LED is permanently <b>green</b> The device is ready for operation.
Readout via the ACT46.PC in progress <b>and</b> simultaneously low battery level. (Less than 20%)	④	LED flashes <b>red/blue</b> alternately Battery must be charged. Battery charging operation is possible during data communication.
<b>Not</b> connected with ACT46.PC <b>and</b> simultaneously low battery level. (Less than 20%)	④	LED flashes <b>red/green</b> alternately Battery must be charged.
Connection between PC and Q log 5.5 was established with USB cable.	②	LED is permanently <b>orange</b> Battery charging.

## Technical data of Q log 5.5 v0.6

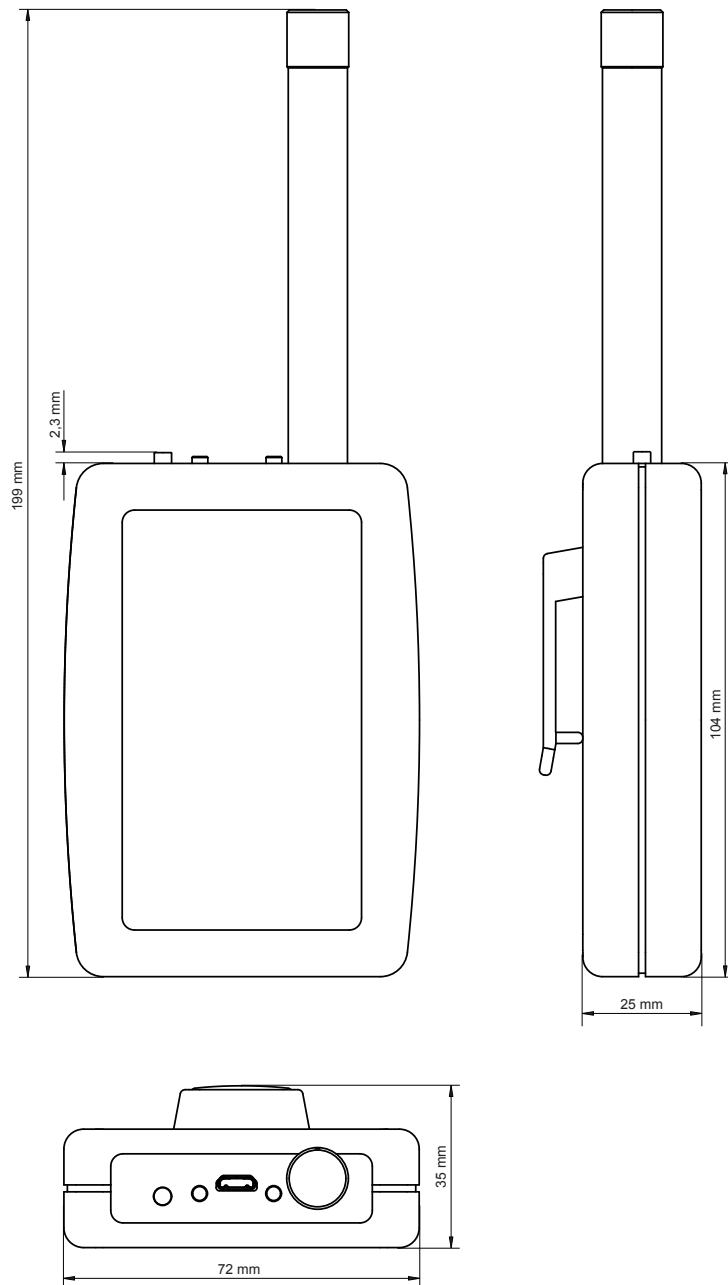
<b>Standards</b>	
EU declaration of conformity	QUNDIS GmbH hereby declares conformity with 1999/5/EC, 2014/53/EU and 2011/65/EU. The complete text of the EU Declaration of Conformity is available at the Internet address <a href="http://www.qundis.com">www.qundis.com</a> .
<b>Environment</b>	
Operating temperature	-20 °C to +60 °C
Humidity	max. 90% at +60 °C
<b>Protection rating</b>	
IP protection rating	IP40
<b>Radio</b>	
Radio modes	S-Modus (walk-by) meter generation 5.0 and 5.5 C-mode (walk-by) meter generation 5.5
Radio operation	Parallel radio operation S-mode and C-mode possible Activated in ACT46.PC software starting from version V1.7.x.x
Frequency range	868 MHz
Sensitivity	typ. -105 dBm
<b>Supply</b>	
Battery	Li-ion battery
Voltage supply <sup>(1)</sup>	5 V DC
Operating voltage	3.4 V DC to 4.2 V DC
Current consumption	Standby In operation
	<2 mA Type 65 mA (with Bluetooth connection)
Charging socket <sup>(2)</sup>	MICRO USB Type B
<b>Bluetooth</b>	
Version	4.1 Smart Ready
HF output power	max. 4 dBm
Sensitivity	-96 dBm
<b>Electromagnetic compatibility</b>	
Interference resistance	EN 61000-4-2, ESC, 8kV Air A, 4kV Contact A EN 61000-4-3, RF, 3 V/m, A
Emitted interference	EN 55022 – Class B
Security of IT equipment	EN 301 489-3
Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short Range Devices (SRD) - Radio equipment to be used in the 25 MHz to 1000 MHz frequency range	EN 301 489-3

<sup>(1)</sup> Power pack not included in scope of supply

<sup>(2)</sup> Charging cable is included in scope of supply

## Dimensional drawing

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