QUNDIS™
ADVANCED MEASURING SOLUTIONS.

Data sheet

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Q tool

The mobile device Q tool is an all-in-one device for Q walk-by and Q AMR applications. The Q tool is controlled by its own buttons, by the Q suite or by the Q app, an Android app for smartphones and tablets.
The use of Q tool and Q app stands for intuitive operation, effi cient grouping of tasks and error-free, digital documentation. The device is an optimised hardware tool for perfect interaction with the Q app.

Application

With the Q tool as mobile receiver and the free Q app as an assistant, the planning and installation as well as the commissioning and readout of properties is raised to a new level and made easier.
For the optimisation and cost-efficient planning and project planning of your field processes, the Q AMR networks on site are subjected to level measurement. You thus get the best possible installation point for the network nodes.
The mobile Q walk-by readout provides an image of your property with the direct and clear presentation of the consumption and device data received.
The Q tool is equipped with a belt clip for mobile use.

Programming adapter

The programming adapter and the Q tool can be used together as a parameter-setting station for the Q caloric 5.5. For the programming adapter to be able to be used with the Q tool, the programming adapter's positioning aid must be replaced.

Battery charge state

The Q tool includes a monitor for the battery charge state.

Interfaces

- Wireless M-Bus interface for top-quality data reception
- Bluetooth® interface for communication with the Q app
- IR interface for device communication
- USB interface for charging, importing firmware updates as well as for communication with Q suite for QUNDIS devices

Product characteristics

- Wireless M-Bus interface for maximum reception sensitivity with external rod aerial
- SMA connector for the alternative connection of an aerial with magnetic base
- IR interface for communication with QUNDIS devices
- USB interface for charging and optional communication via USB direct mode with Q suite
- integrated Bluetooth® interface for communication with the Q app
- large, easy-to-operate buttons, Q button programmable (e.g. to start the wireless telegrams)
- optical status display through coloured LEDs
- belt clip for easy attachment

Interaction with Q app

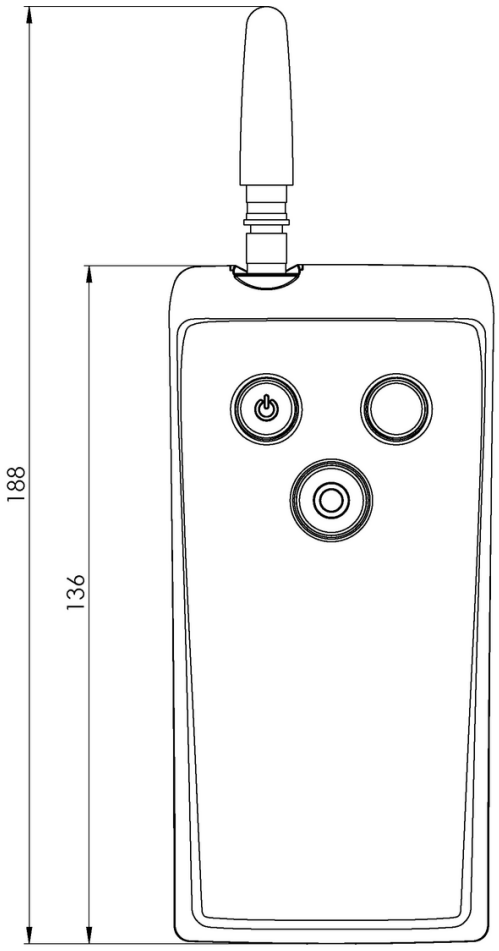
- optimised for Android® tablets / smartphones
- customised design on request
- API interface can be integrated in own software solution

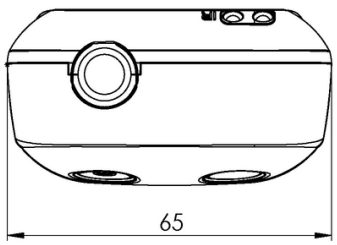
Technical data

Environment	
Protection rating	IP54 according to EN 60529
Protection class	III according to EN 61140
Transport	-10 °C ... 60 °C, < 85 % r.h. (without condensation)
Storage	-10 °C ... 60 °C, < 85 % r.h. (without condensation)
Use	-10 °C ... 60 °C, < 90 % r.h. (without condensation)
Wireless M-Bus (EN 13757)	
Independently controlled radio transmitters	2
RSSI signal strength measurement	yes
AES encryption	128 Bit
Supported modes	S1, S1-m, S2: radio frequency (868.3 ±0.3) MHz, transmission power (max. 14 dBm / typ. 10 dBm) C1, T1: radio frequency (868.95 ±0.25) MHz, transmission power (none)
Bluetooth®	
Bluetooth® Standard	Bluetooth® 5.1 Low Energy
Radio frequency	2.4 GHz (2400 ... 2483.5) MHz
Transmission power	max. +8 dBm
USB	
USB specification	2.0
USB port	USB socket, type C
Infrared	
Physical infrared layer	SIR
Baudrate	max. 115200 / typical 9600
Range	max. 15 cm
Angle	cone min. ±15°
Material	
Dimensions (W x H x D in mm)	without antenna: 65 x 136 x 35 with supplied antenna: 65 x 188 x 35
Weight	160 g
Material Housing	ABS plastic
Battery	
Type	rechargeable, non-replaceable lithium polymer battery
Nominal capacity	2400 mAh (8.9 Wh)
Battery charging	via USB socket (type C), USB cable included in delivery automatic detection of USB BC1.2, SDP, CDP and DC
Charging voltage	5 V DC, charger not included

Charging current	max. 2300 mA
Temperature during loading	0 °C ... 45 °C

Dimensional drawings





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