



resideo RML10-STD Mobile Parameterization and Readout Tool Instruction Manual

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**Mobile parameterization and
readout tool
RML10-STD**

READ CAREFULLY BEFORE USE. STORE FOR THE ENTIRE LIFE OF THE PRODUCT.

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Safety notes

1.1 Common safety instructions

These instructions must be kept for the entire service life of the device.

Hazard warnings

	Danger Danger from swallowing small parts! Keep the device out of the reach of children. Swallowing small parts can cause suffocation or other serious damage.
	Caution Danger of crushing! Use the belt clip carefully to avoid crushing.
	Caution Danger of stabbing injuries! Pay attention to the rod antenna when using the device to avoid eye injuries, for example.
	Caution Danger from flying parts! Securely fasten the device when transporting it in vehicles. Otherwise, the device could cause injuries, e.g. during a braking process.

Intended use

The mobile tool for parametrisation and readout RML10-STD is an all-in-one device for walk-by applications and AMR applications.

The RML10-STD is controlled via the RM App software, which runs on an Android® smartphone or tablet. The RML10-STD can be used for the following purposes:

- walk-by (wM bus)
- AMR: (RNN) set-up and configuration tool (wM bus & Infrared)
- Meter installation & configuration tool (Infrared)

Improper use

Any use other than the use described use above and any changes made to the device constitute improper use.

Safety Instructions

Observe the technical requirements for the electrical connection and applicable national regulations. Observe the technical requirements for the connection of the data communication modules and applicable national regulations.

1.2 Safety notes on Lithium batteries

The mobile device RML10-STD is powered by a rechargeable lithium polymer battery. This battery is safe if handled properly under the parameters specified by the manufacturer. The device is maintenance-free and must not be opened.

Handling:

- Observe the specified ambient conditions when transporting, storing and using the device.
- Avoid mechanical damage, e.g. dropping, crushing, opening, drilling through or dismantling the batteries.
- Avoid an electrical short-circuit, e.g. from foreign matter or water.
- Avoid excessive thermal load, e.g. from permanent sunlight or fire.

Charging the battery:

- Use only the delivered USB cable to charge the battery, see Kapitel 3.4, "Battery".
- The battery is permanently integrated in the device and must not be removed.

Danger caused by improper handling:

- Incorrect handling or circumstances may result in leaks or improper operation, as well as leakage of battery contents or decomposition products. Major reactions can take place which are a risk to both health and the environment (development of gas and fire).

- Technical defects or improper handling can lead to an uncontrolled and accelerated release of the chemically stored energy. This is usually released in the form of thermal energy, which can lead to a fire.

1.3 Disposal

With regard to disposal, the device is considered to be waste electronic equipment in the sense of the European Directive 2012/19/EU. The device must therefore not be disposed of with household waste.

- Dispose of the device via the channels provided for this purpose.
- Observe the local and currently valid legislation.

1.4 Warranty and guarantee

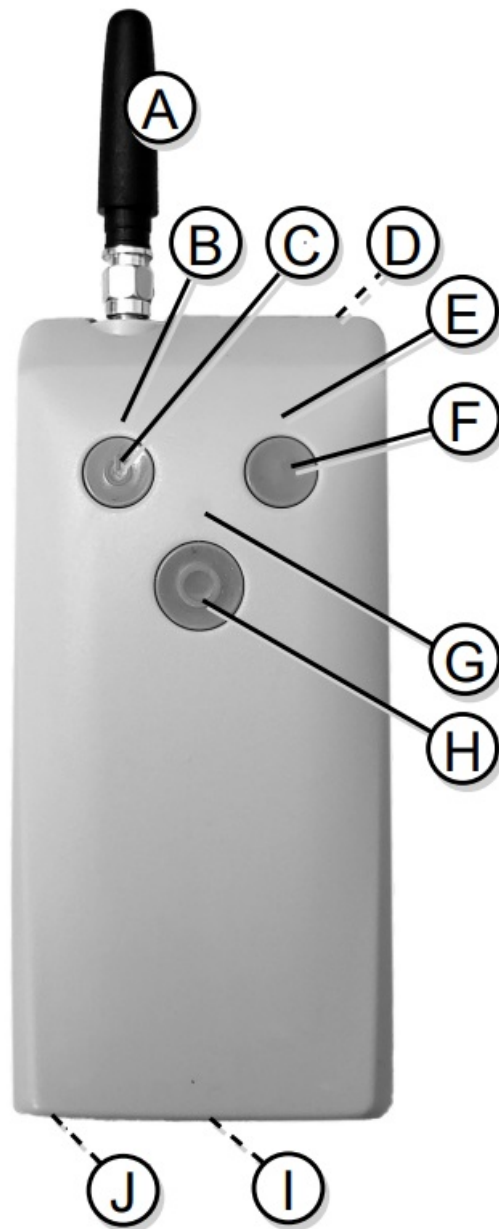
Warranty and guarantee claims can only be asserted if the equipment has been used for its intended purpose and if the applicable technical specifications and rules have been observed. All uses not in accordance with the intended purpose automatically lead to a loss of claims.

Scope of delivery

- 1 x Mobile device RML10-STD with belt clamp and antenna
- 1 x Positioning aid for E53205 programming adapter
- 1 x USB cable (USB type A – USB type C, 1 m length)
- 1 x Product accompanying document

Operation

3.1 Operating elements



- A) Antenna
- B) PWR
- 1) LED (indicator for device status and battery charging)
- C) PWR button (device on/off)
- D) Infrared interface
- E) BLE
- 2) LED (activity indicator for Bluetooth and USB)
- F) BLE button (Bluetooth on/off)
- G) LED (activity indicator for Infrared)
- H) button (programable)
- I) USB socket (type-C)
- J) Attachment for neck strap 3)
- 1) PWR = Power,
- 2) BLE = Bluetooth Low Energy,
- 3) not included in delivery

3.2 Switching RML10-STD on or off

1. Press the PWR button for 2 seconds.

- ✓ You hear a short beep.
- ✓ If the RML10-STD is switched on: The PWR LED starts flashing green.

- ✓ If the RML10-STD is switched off: The PWR LED stops flashing (off).

3.3 Restarting RML10-STD

1. Press the PWR button for 10 seconds.

P The RML10-STD will shut down and restart.

3.4 Battery

Charging the battery

1. Connect the RML10-STD to a USB charger or to a USB host.

- The power delivery option of the USB host must be enabled.
- Use the supplied USB cable.
- The RML10-STD supports USB Type-C BC1.2 charging mechanism with “Fast charge” feature.
- The RML10-STD can be turned on and is fully operational even while charging.

Signals of the PWR LED

Light signal	Meaning
off	The RML10-STD is off.
yellow permanently	The RML10-STD is off and fully charged, but still connected to the charger.
yellow flashing	The RML10-STD is off and being charged.
green permanently	The RML10-STD is on and fully charged, but still connected to the charger.
green flashing	The RML10-STD is on and not being charged.
green and yellow flashing	The RML10-STD is on and being charged.
red permanently	Charging error
red flashing	The RML10-STD is on, low battery warning (<20 %).
red flashing and 3 seconds beep	The RML10-STD is being shut down automatically.

Table 4: Signals of the PWR LED

Battery level monitoring

The RML10-STD incorporates battery level monitoring. The battery is discharging when the RML10-STD is turned on and operational. Also, when the RML10-STD is switched off, it discharges slightly.

Low battery warning

When the battery reaches 20 % of full charge capacity the PWR LED will start flashing red.

Auto shut-down

When the battery level reaches 0 % of full charge capacity:

- An acoustic signal sounds for 3 seconds.
- The device will automatically shut down.
- The LEDs will also be switched off.

3.5 Bluetooth connection

Switching Bluetooth on or off

1. Press the BLE button for 2 seconds.

- ✓ The RML10-STD is visible to other Bluetooth devices as <RML10-STD [serial number]> for 30 seconds.
- ✓ You hear a short beep.
- ✓ If Bluetooth is switched on: The BLE LED starts flashing blue.
- ✓ If Bluetooth is switched off: The BLE LED stops flashing (off).

Pairing RML10-STD with Android® device

1. Switch Bluetooth on.

- Within 30 seconds you can pair the RML10-STD to your Android device.
- You do not need a password.
- When the RML10-STD is paired to your Android device, the BLE LED glows blue permanently.
- If no pairing occurs within 30 seconds, Bluetooth will be switched off.
- After disconnecting the RML10-STD from your Android device, your Android device automatically switches off Bluetooth.

Signals of the BLE LED

Light signal	Meaning
off	Bluetooth is off, USB is not active.
blue permanently	A Bluetooth connection is active. (Note: Bluetooth has priority over USB. If both are connected only Bluetooth is shown.)
blue flashing	The RML10-STD is visible via Bluetooth.
green permanently	A USB connection is active.
green and blue flashing	A USB connection is active and the RML10-STD is visible via Bluetooth.
light blue	button is under control of a connected application (e.g. RM App) and a Bluetooth connection is active.
orange	button is under the control of a connected application (e.g. RM App) and Bluetooth is switched off
orange and light blue flashing	button is under the control of a connected application (e.g. RM App) and Bluetooth is in pairing mode

Table 5: Signals of the BLE LED

3.6 USB connection

The RML10-STD can communicate with HMA suite only via USB connection. If the RML10-STD is connected to a computer via USB, it creates two COM ports:

- The COM port “USB Serial Port for metering devices” is intended for use with HMA suite.
- The COM port “USB Serial Port RML10-STD” is reserved for future Windows® applications.

Signals of the BLE LED

see Kapitel 3.5, "Bluetooth connection", Tab. 5: Signals of the BLE LED

3.7 Infrared connection

Switching infrared on

1. Press the button.

Infrared operational modes

The RML10-STD can operate in the following infrared modes:

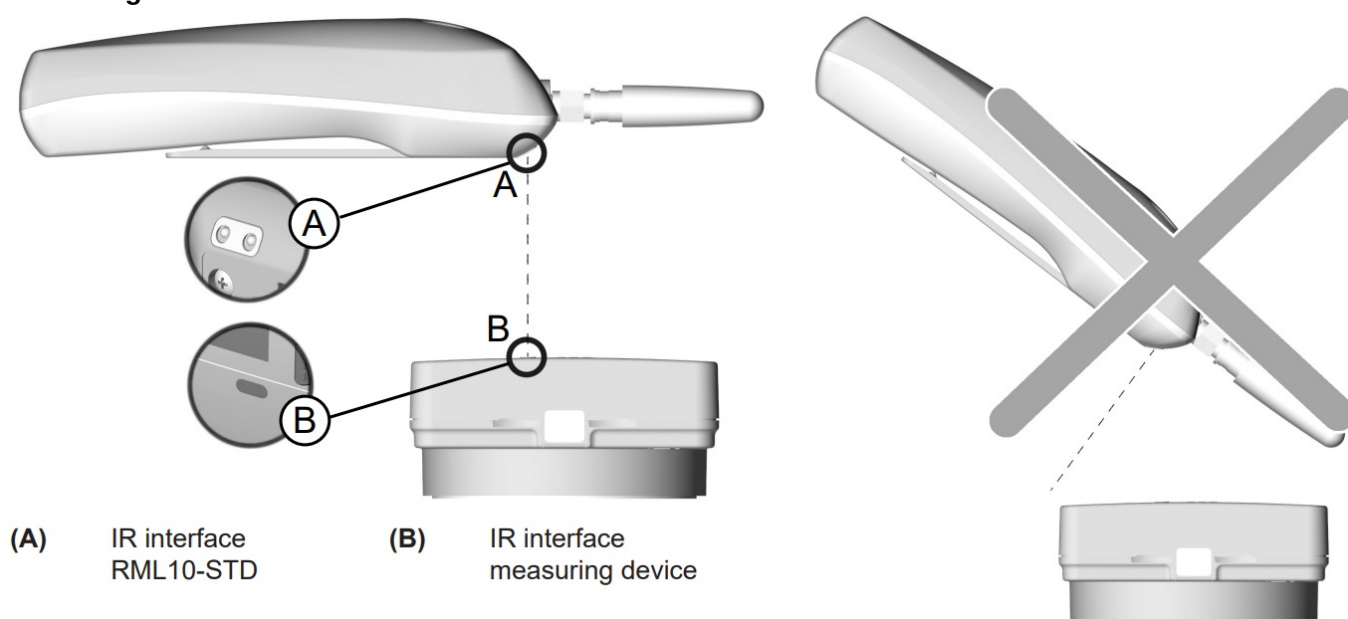
- Standard assignment of the button: The radio telegrams are started at the measuring device.
- Free assignment by the RM App: The infrared transmitter is controlled via the RM App.
- HMA suite transparent mode: The RML10-STD is connected to a Windows® computer on which HMA suite is running.

Signals of the LED

Light signal	Meaning
off	The button is in meter start mode.
yellow permanently	The function of the button is set by the RM App (RM App mode)
yellow flashing	infrared communication in progress (only in meter start mode)
2 seconds green, 1 second beep	infrared communication was successful (only in meter start mode)
2 seconds red, 3 short beeps	infrared communication error (only in meter start mode)
2 seconds yellow, 5 short beeps	infrared device reported error (only in meter start mode)

Table 6: Signals of the LED

Positioning of the RML10-STD



Distance between (A) and (B) maximum 15 cm.

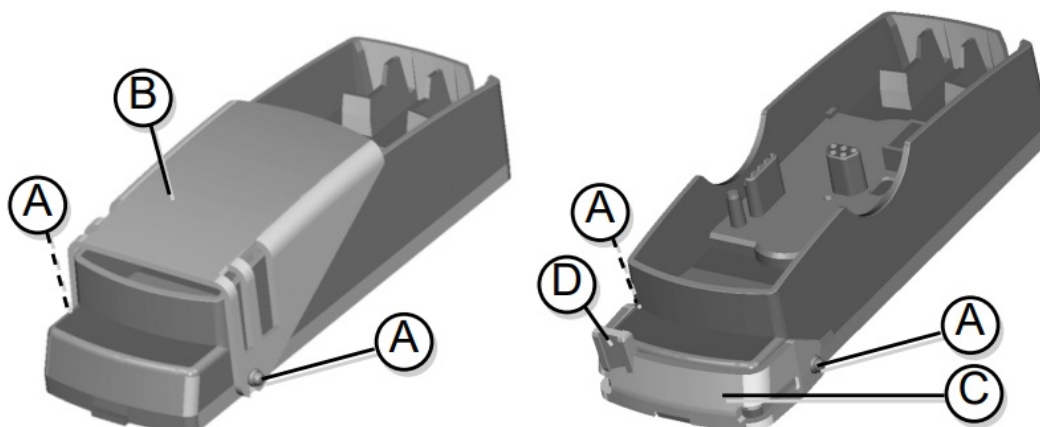
3.8 Retrofitting E53205 programming adapter

The programming adapter for E53205 is by default intended for use with the WFZ.IrDA-USB. To use the programming adapter with the RML10-STD, the positioning guide of the programming adapter must be replaced.



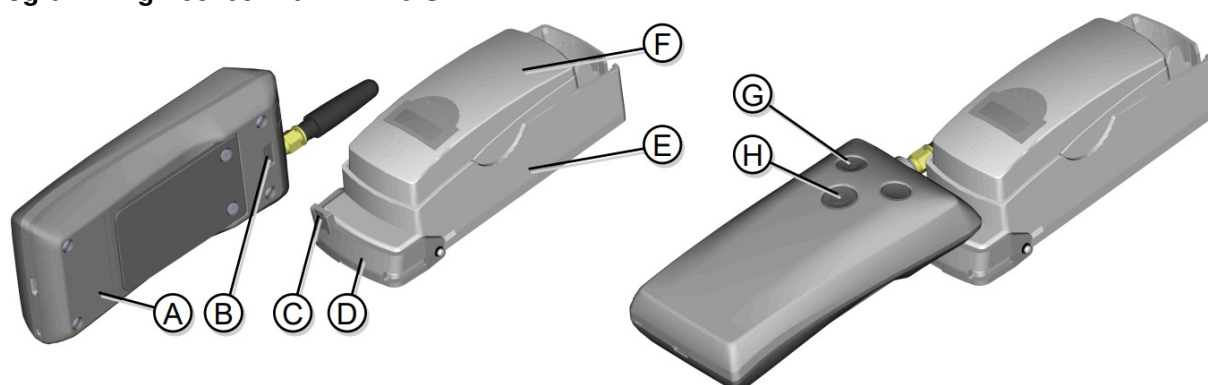
Warning

Carry out the following steps very carefully! There is a risk that the retaining bars or the positioning guide will break off.



1. Remove the O-rings (A).
2. Remove the positioning guide for the WFZ.IrDA-USB (B).
3. Mount the positioning guide for the RML10-STD (C).
 - The guide nose of the positioning guide (D) must point upwards.
4. Mount the O-rings (A).

3.9 Programming E53205 with RML10-STD



1. Insert the E53205 (F) into the programming adapter (E).
2. Place the RML10-STD (A) on the positioning guide (D).
 - The guide nose (C) of the positioning guide must be in the recess (B) on the back of the RML10-STD.
3. To switch on the RML10-STD, press the PWR button (G).
4. To activate the infrared interface of the RML10-STD, press the button (H).
5. Perform the programming with the RM App.

Technical specifications

General information	
Dimensions (W x H x D in mm)	without antenna: 65 x 136 x 35 with antenna: 65 x 188 x 35

Weight	160 g
Housing material	ABS plastic
IP protection rating	IP54
Ambient conditions	
During operation	-10 °C ... +60 °C, < 90 % RH (without condensation)
During transport	-10 °C ... +60 °C, < 85 % RH (without condensation)
During storage	-10 °C ... +60 °C, < 85 % RH (without condensation)
Wireless M-Bus (EN 13757)	
Independently controlled radio transceivers	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
USB connector	USB Type-C socket
Infrared	
Infrared Physical Layer	SIR
Baud rate	max. 115200 / typ. 9600
Range	max. 15 cm
Angle	min. cone ±15°
Battery	
Type	rechargeable, non-replaceable lithium-polymer battery
Nominal capacity	2400 mAh (8.9 Wh)
Battery charging	via USB socket (type C); USB cable (type C) is supplied; auto detection of USB BC1.2, SDP, CDP, DC
Charge voltage	5 V DC
Charge current	max. 2300 mA


Temperature during charging	0 °C ... +45 °C
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Simplified EU Declaration of Conformity

CE Ademco 1 GmbH hereby declares that this device complies with directive 2014/53/EU (RED).
 The full text of the EU Declaration of Conformity is available at the following Internet address:
<https://homecomfort.resideo.com/sites/europe>
 There are no restrictions on the use of these products in EU countries.

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Documents / Resources

 <p>resideo</p> <p>Operating manual Multilingual</p> <p>Mobile parameterization and readout tool RML10-STD</p>	<p>resideo RML10-STD Mobile Parameterization and Readout Tool [pdf] Instruction Manual RML10-STD Mobile Parameterization and Readout Tool, RML10-STD, Mobile Parameterization and Readout Tool, Parameterization and Readout Tool, Readout Tool, Tool</p>
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References

- [Comfort Europe from Resideo](#)
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