

Operating and installation instructions

REMKO Ethernet adapter



Quick guide



Read these operating instructions carefully before commissioning / using this device!

These instructions are an integral part of the system and must always be kept near or on the device.

Subject to modifications; No liability accepted for errors or misprints!

Translation of the original

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1 Safety and usage instructions

1.1 General safety notes

Carefully read the operating manual before commissioning the units for the first time. It contains useful tips and notes such as hazard warnings to prevent personal injury and material damage. Failure to follow the directions in this manual not only presents a danger to people, the environment and the system itself, but will void any claims for liability.

Keep this operating manual and the refrigerant data sheet near to the units.

1.2 Identification of notes

This section provides an overview of all important safety aspects for proper protection of people and safe and fault-free operation. The instructions and safety notes contained within this manual must be observed in order to prevent accidents, personal injury and material damage.

Notes attached directly to the units must be observed in their entirety and be kept in a fully legible condition.

Safety notes in this manual are indicated by symbols. Safety notes are introduced with signal words which help to highlight the magnitude of the danger in question.

DANGER!

Contact with live parts poses an immediate danger of death due to electric shock. Damage to the insulation or individual components may pose a danger of death.

DANGER!

This combination of symbol and signal word warns of a situation in which there is immediate danger, which if not avoided may be fatal or cause serious injury.

WARNING!

This combination of symbol and signal word warns of a potentially hazardous situation, which if not avoided may be fatal or cause serious injury.

CAUTION!

This combination of symbol and signal word warns of a potentially hazardous situation, which if not avoided may cause injury or material and environmental damage.

NOTICE!

This combination of symbol and signal word warns of a potentially hazardous situation, which if not avoided may cause material and environmental damage.



This symbol highlights useful tips and recommendations as well as information for efficient and fault-free operation.

1.3 Personnel qualifications

Personnel responsible for commissioning, operation, maintenance, inspection and installation must be able to demonstrate that they hold a qualification which proves their ability to undertake the work.

1.4 Dangers of failure to observe the safety notes

Failure to observe the safety notes may pose a risk to people, the environment and the units. Failure to observe the safety notes may void any claims for damages.

In particular, failure to observe the safety notes may pose the following risks:

- The failure of important unit functions.
- The failure of prescribed methods of maintenance and repair.
- Danger to people on account of electrical and mechanical effects.

1.5 Safety-conscious working

The safety notes contained in this manual, the existing national regulations concerning accident prevention as well as any internal company working, operating and safety regulations must be observed.

1.6 Safety notes for the operator

The operational safety of the units and components is only assured providing they are used as intended and in a fully assembled state.

- The units and components may only be set up, installed and maintained by qualified personnel.
- Protective covers (grille) over moving parts must not be removed from units that are in operation.
- Do not operate units or components with obvious defects or signs of damage.
- Contact with certain unit parts or components may lead to burns or injury.
- The units and components must not be exposed to any mechanical load, extreme levels of humidity or extreme temperature.
- Spaces in which refrigerant can leak sufficient to load and vent. Otherwise there is danger of suffocation.
- All housing parts and device openings, e.g. air inlets and outlets, must be free from foreign objects, fluids or gases.
- The units must be inspected by a service technician at least once annually. Visual inspections and cleaning may be performed by the operator when the units are disconnected from the mains.

1.7 Safety notes for installation, maintenance and inspection

- Appropriate hazard prevention measures must be taken to prevent risks to people when performing installation, repair, maintenance or cleaning work on the units.
- The setup, connection and operation of the units and its components must be undertaken in accordance with the usage and operating conditions stipulated in this manual and comply with all applicable regional regulations.
- Local regulations and laws such as Water Ecology Act must be observed.
- The power supply should be adapted to the requirements of the units.
- Units may only be mounted at the points provided for this purpose at the factory. The units may only be secured or mounted on stable structures, walls or floors.
- Mobile units must be set up securely on suitable surfaces and in an upright position. Stationary units must be permanently installed for operation.
- The units and components should not be operated in areas where there is a heightened risk of damage. Observe the minimum clearances.

- The units and components must be kept at an adequate distance from flammable, explosive, combustible, abrasive and dirty areas or atmospheres.
- Safety devices must not be altered or bypassed.

1.8 Unauthorised modification and changes

Modifications or changes to units and components are not permitted and may cause malfunctions. Safety devices may not be modified or bypassed. Original replacement parts and accessories authorised by the manufacturer ensure safety. The use of other parts may invalidate liability for resulting consequences.

1.9 Intended use

The Ethernet adapter as the connection between the touch display and the LAN cable.

Any different or additional use is a non-intended use. The manufacturer/supplier assumes no liability for damages arising from non-intended use. The user bears the sole risk in such cases. Intended use also includes working in accordance with the operating and installation instructions and complying with the maintenance requirements.

The threshold values specified in the technical data must not be exceeded.

1.10 Warranty

For warranty claims to be considered, it is essential that the ordering party or its representative complete and return the "certificate of warranty" to REMKO GmbH & Co. KG at the time when the units are purchased and commissioned.

The warranty conditions are detailed in the "General business and delivery conditions". Furthermore, only the parties to a contract can conclude special agreements beyond these conditions. In this case, contact your contractual partner in the first instance.

REMKO Ethernet adapter

1.11 Transport and packaging

The devices are supplied in a sturdy shipping container or inside the heat pump casing. Please check the equipment immediately upon delivery and note any damage or missing parts on the delivery and inform the shipper and your contractual partner. For later complaints can not be guaranteed.



WARNING!

Plastic films and bags etc. are dangerous toys for children!

Why:

- Leave packaging material are not around.
- Packaging material may not be accessible to children!

1.12 Environmental protection and recycling

Disposal of packaging

All products are packed for transport in environmentally friendly materials. Make a valuable contribution to reducing waste and sustaining raw materials. Only dispose of packaging at approved collection points.



Disposal of equipment and components

Only recyclable materials are used in the manufacture of the devices and components. Help protect the environment by ensuring that the devices or components (for example batteries) are not disposed in household waste, but only in accordance with local regulations and in an environmentally safe manner, e.g. using certified firms and recycling specialists or at collection points.



2 Product description and technical data

Features of the REMKO Ethernet adapter

Technical data designation: USB 2.0 Ethernet adapter

- Fulfills IEEE standards 802.3/802.3u
- Fulfills USB 2.0/1.1 specifications
- Supports 10/100 Mbps auto-negotiation
- Low power consumption in idle mode and with little traffic
- No external power supply required
- Chip set: Asix IC AX88772B USB 2.0 for full 10/100 Mbps Ethernet performance USB 2.0 can transfer data at 480 Mbps, ensuring full 10/100 Mbps Ethernet performance
- Low energy consumption: The REMKO adapter is designed for effective use of energy and to prevent unnecessary waste of energy. It can dynamically reduce its power supply in order to reduce energy consumption during idle operation and low traffic

Technical data

Product		Ethernet adapter
Connections/Interfaces		
Interface(s)		USB2.0
LAN		10/100
Connection		1 x RJ 45
Dimensions		
Height	mm	225
Width	mm	143
Depth	mm	190
EDP no.		248108

We reserve the right to make technical changes for the purpose of technical advancement.

REMKO Ethernet adapter

3 Mounting the adapter

3.1 Connection to the REMKO Smart-Control Touch controller

! NOTICE!

Only use the unit in dry areas and protect it from electromagnetic radiation.

use

The REMKO adapter must be used if it is not possible to connect the REMKO Smart-Control Touch controller to the W-LAN network of the in-house router.

To do this, install the adapter directly on the panel of the Touch Display.

The adapter can now be connected with a patch cable (LAN cable).

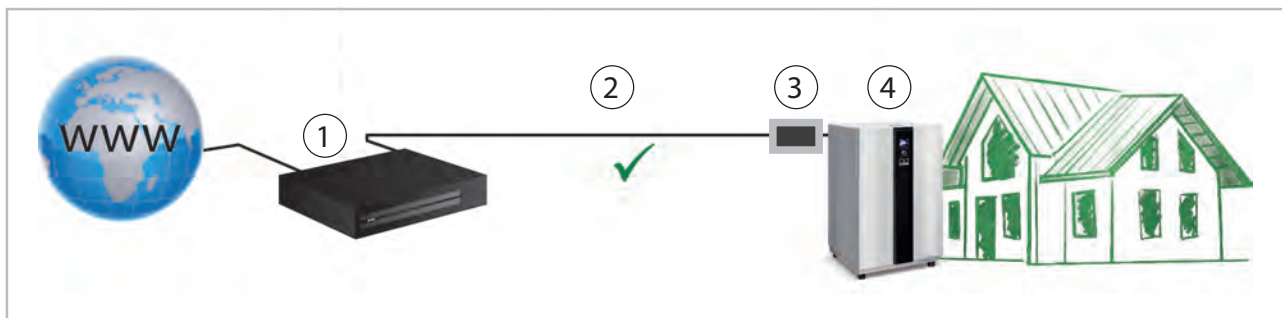
The cable must be connected directly to the router.

! NOTICE!

The router must be set up by a specialist



Fig. 1: USB Ethernet adapter



- 1: Router (example)
- 2: Patch cable

- 3: LAN adapter
- 4: Heat pump

3.2 Mounting the adapter

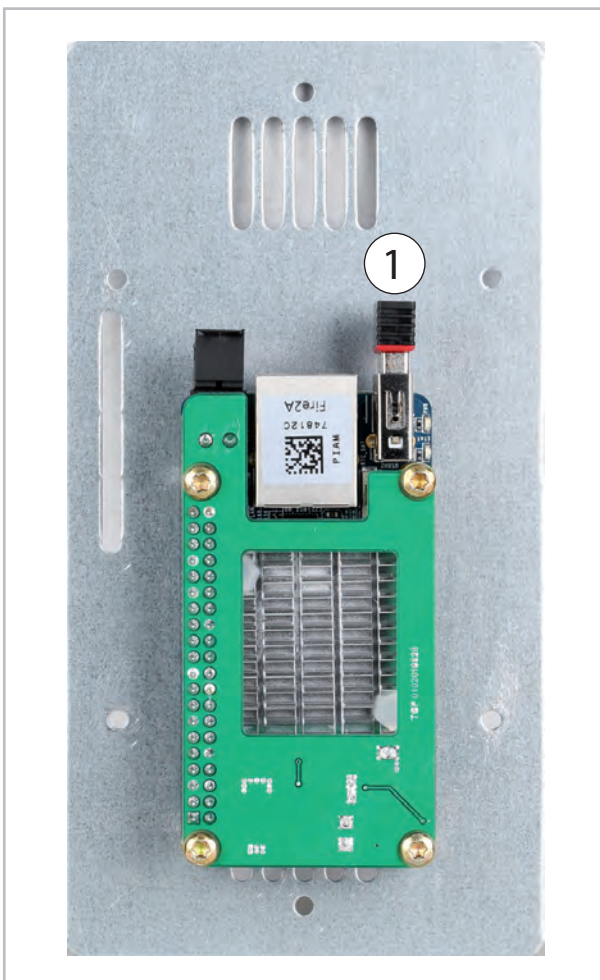
The LAN cable may only be connected to the USB port using the REMKO adapter. (see Fig. 2, Pos. 3)



Fig. 2: Remote control connections

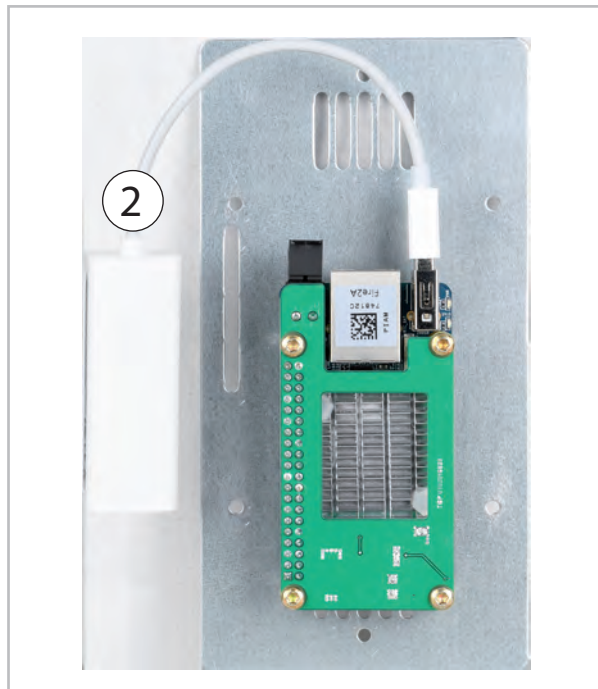
- 1: 12 V/GND connection (occupied)
- 2: Patch cable connection (LAN cable) occupied
- 3: LAN adapter connection

1. ➔ To install the adapter, remove the existing USB W-LAN stick [1].



2. ➔ After the W-LAN stick has been removed, connect the Ethernet adapter to the now free port.

Connect the adapter [2] with the LAN (patch) cable and the router.



REMKO Ethernet adapter

3.3 LAN function

Installation and setup of the LAN function

System requirements

The following system requirements are necessary to complete the LAN function installation successfully:

- REMKO Smart Control Touch controller with software version 4.25 or higher
- JavaScript/HTML5-capable web browser (version not more than two years old)
- Broadband internet connection of at least 10 mbit/s
- The WLAN router must support WPA 2 encryption/security standard

Installation in house

The central controller for the REMKO heat pump via a smart phone or other mobile devices can be installed virtually anywhere in the building.

The connection requires a router which is connected directly to the control unit of the heat pump via LAN.

! NOTICE!

The router must be set up by a specialist



The LAN function is limited to the in-house LAN network of the operator only. Outside the network, access to the heat pump parameters is not possible.



Fig. 3: External access

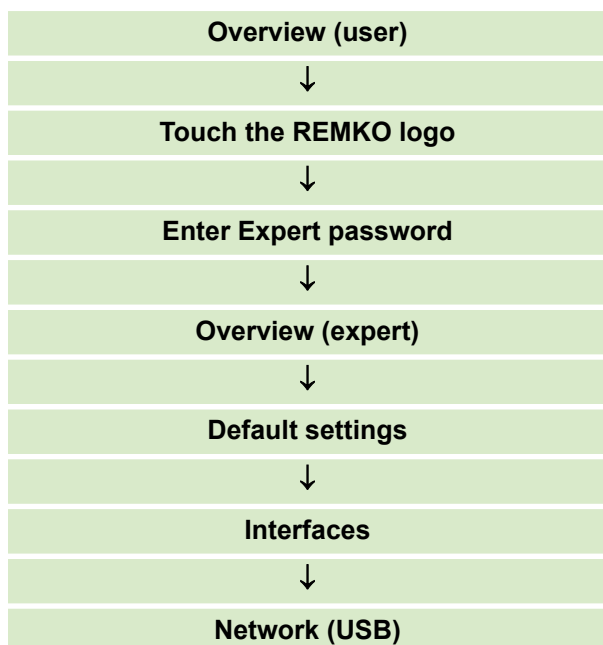
1: Router (example)

2: REMKO Smart-Control Touch

Installation on mobile devices

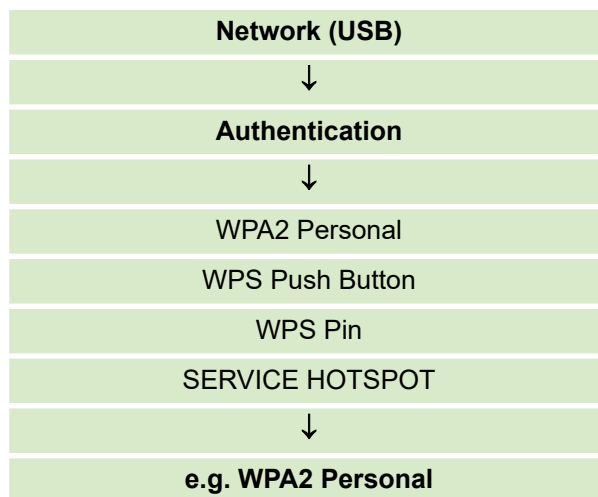
To be able to use the LAN function of the REMKO heat pump, a connection must be established with the in-house router. This is only possible at the expert level. To do so, touch the REMKO logo in the upper right corner of the display.

After activating the expert level by touching the corresponding REMKO logo, a password is required. To enter the password at this level, use "+/-" and then proceed to the next item with "Next". Once you have finished entering the REMKO default password "0321", confirm the input with "OK".



Setting up the network

In the authentication parameter, now select the appropriate parameter for your LAN network. Note that the REMKO Smart-Control Touch only supports the WPA 2 encryption/security standard. For this purpose you must know the name of your LAN network and the corresponding password. Once you have selected, for example "WPA2 personnel", you must then enter the SSID (name of the LAN network).



For authentication via the "WPS Push Button" the internal house router must have a push button function.

To select the "SSID" parameter, scroll down the screen in the "Network" level.

Then enter the name of your network and the password. When doing so you can choose between upper and lower case letters, numbers or special characters such as ?/&/%. To do so, press the "Selection" icon multiple times. Select "Next" to proceed to the next letter or number for entry. The "Delete" icon removes incorrectly stored entries.

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Network (USB)
↓
SSID
↓
Selection
Enter network name
Enter password

Once you have entered the network name or password correctly, confirm the input with the "OK" icon.

Touching the "Cancel" icon completely cancels the entry.

Once all parameters for your LAN network have been correctly saved, the heat pump will connect with your network. You can check this via the "Network USB" parameter. "Connect" must be displayed here (if all data is correct). To view the heat pump data on a smartphone, tablet or laptop, make a note of the IP address that comes after the identifier "connected".

Overview (expert)
↓
Information
↓
Basic information
↓
Network (USB)
connected (IP address)

Enter the IP address displayed in the address field of your smartphone or tablet Internet browser and connect to the heat pump. As long as you are in the WLAN network of your router, you now have the possibility to control your REMKO Smart-Control Touch controller via your mobile device.



To connect the REMKO Smart-Control Touch with your router, the WLAN network must be received by the controller with sufficient signal strength!

This function is available to you constantly whilst connected to the WLAN network of your router. Outside of your network, you have no further access to the parameters of your controller.

If you require the option of accessing the parameters of your controller outside of the actual WLAN network, this is only possible with the REMKO Smart-Web function.

This supplementary software can be additionally ordered and installed on the Smart-Control Touch controller.

Please observe the separate operating instructions for the REMKO Smart-Web function in this regard.

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