



INTERNET MODULE

SR-100 S-therm remote

S-THERM

 **sinclair**
HEAT PUMPS

„ORIGINAL INSTRUCTIONS“

IMPORTANT NOTE:

Read this manual carefully before installing or operating your new air conditioning unit.
Make sure to save this manual for future reference.

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1. Information

The SR-100 S-therm remote internet module is intended for:

- wireless cooperation with a WiFi router - connection to the local WiFi,
- wireless cooperation with a mobile device: S-therm remote mobile application and <https://www.s-thermremote.com> website (BT/WiFi connection),
- RS485 (Modbus RTU) wired cooperation with the ONTARIO and YUKON heat pump.

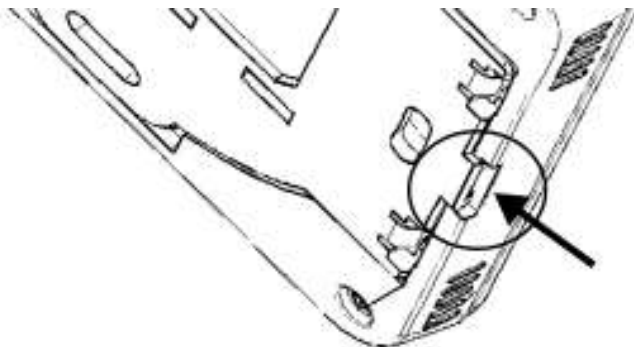
Module functions:

- cooperation with <https://www.s-thermremote.com> website, thanks to which it is possible to access the operating parameters of the heat pump installation via the Internet,
- ability to view the current operating parameters of the heat pump,
- ability to view and edit most heat pump operating parameters,
- registration of key operating parameters of the heat pump installation,
- ability to be notified by e-mail about an alarm condition.

2. Installation

First module hardware version

Attention. If the mounting frame is attached to the rear housing of the module (the frame is attached with latches), it should be disconnected by inserting a flat element, e.g. a screwdriver, into the slot indicated below.



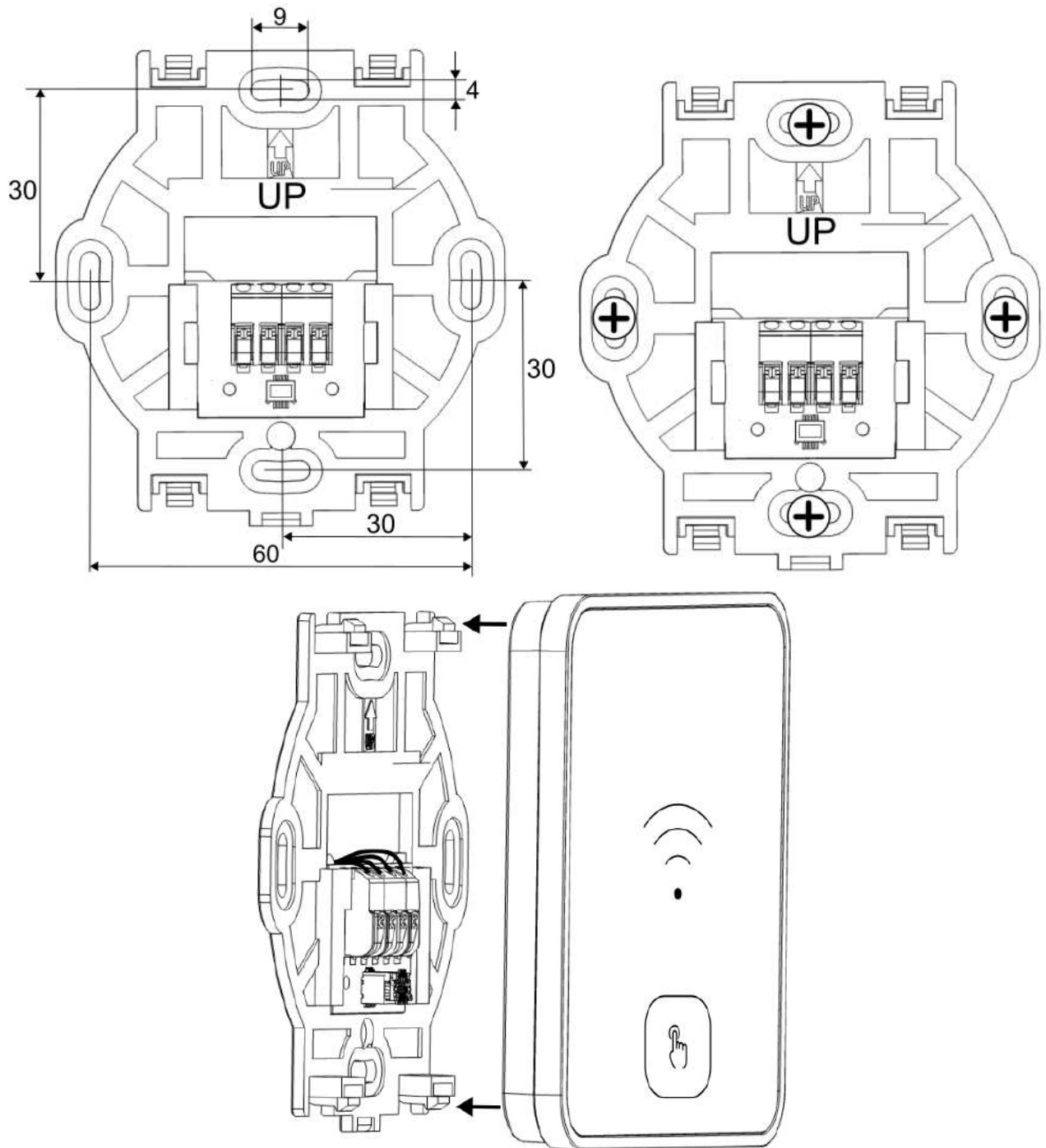
Before installing the module, write down the FN factory number, e.g. 1006194719, located on the label plate, which will be necessary for configuration.

Connect the 2-wire transmission cable connecting the module with the heat pump panel and the 2-wire external power cable to the self-clamping according to point: 3



The transmission cable cannot be run together with the building's electrical network cables or near devices emitting a strong electromagnetic field.

Drill holes in the wall and use screws to fix the mounting frame in the selected place on the wall - keeping the appropriate position (UP). Then attach the module to the mounting frame with the use of latches.



Second module hardware version

Disconnect the mounting frame from the back housing of the module. The frame is attached to the housing with latches - can use a flat screwdriver to detach the bezel.

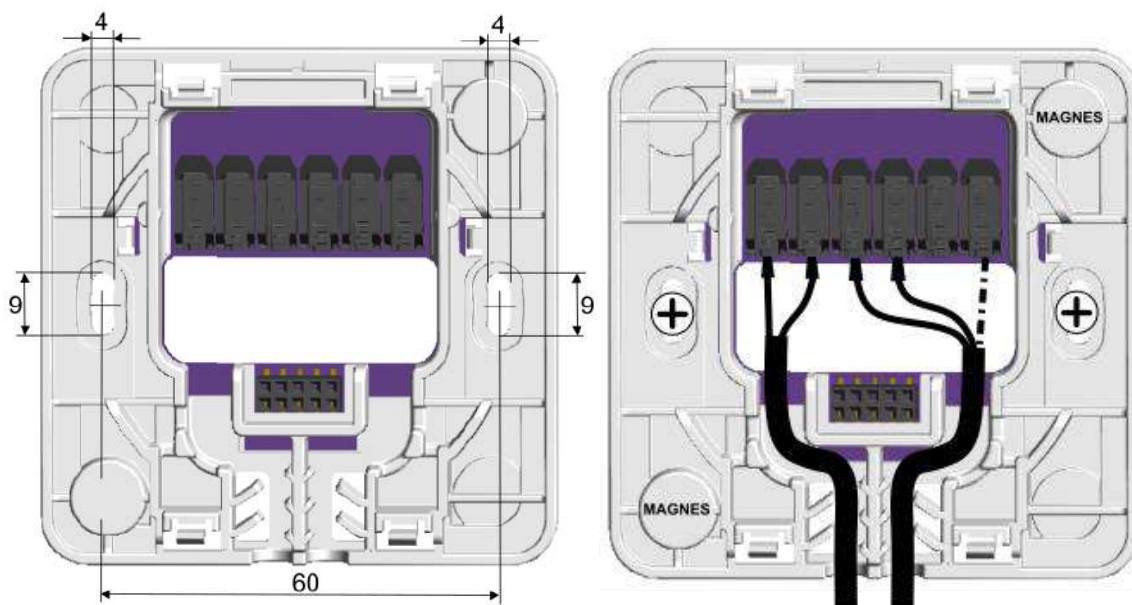


Before installing the module, write down the FN factory number, e.g. 1006671670, located on the label plate, which will be necessary for configuration.

Installation methods:

1. Drill holes in the wall and use 2 screws to secure the mounting frame in the appropriate position in the selected wall location.
2. Use 2 screws to secure the mounting frame in the appropriate position to the holes in the standard 60 mm installation box.
3. Secure the mounting frame to the flat, metal housing of the heat pump in the appropriate position using the 2 magnets built into the frame.

Connect the transmission and power supply wires to the module's self-clamping device. The wires should be routed through the cable tray of the mounting frame. Secure the module to the mounting frame using the latches.





The uninstallation described in point. 12

3. Electrical connection



The module only works with selected types of ONTARIO and YUKON heat pumps. Information is available from the heat pump manufacturer.



When connecting the wires of the transmission and power cables, pay attention to the appropriate polarity of the D+, D- and power supply GND, VCC signals between the module, the control panel and the external power supply. Inappropriate connection may result in damage to the module or errors in the operation of the module and the heat pump control panel.

The previously installed external power supply for the module should be inserted into the power socket. The external power supply must meet the standards specified in the technical data table (if the external power supply is included with the module, it meets the required standards). Correct installation of the module will be confirmed by the LED diode flashing.

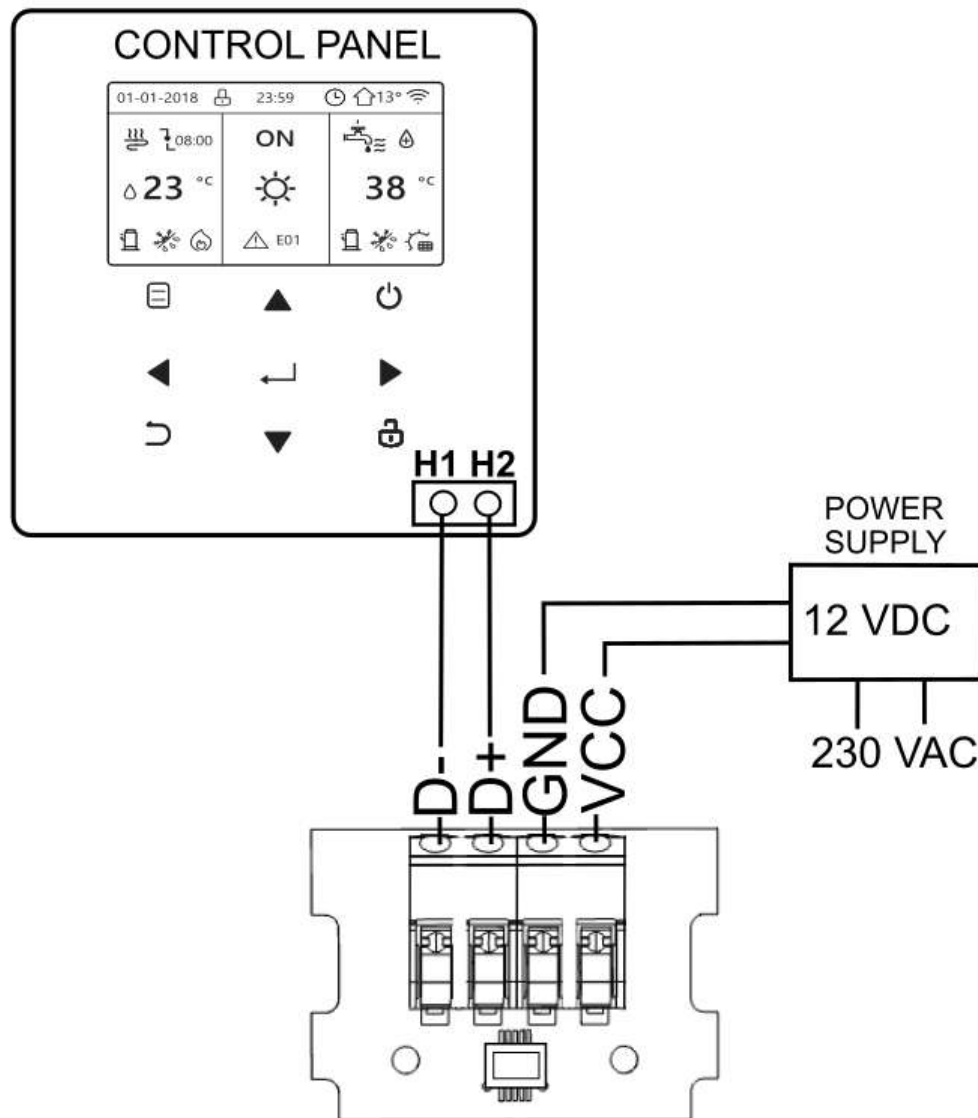


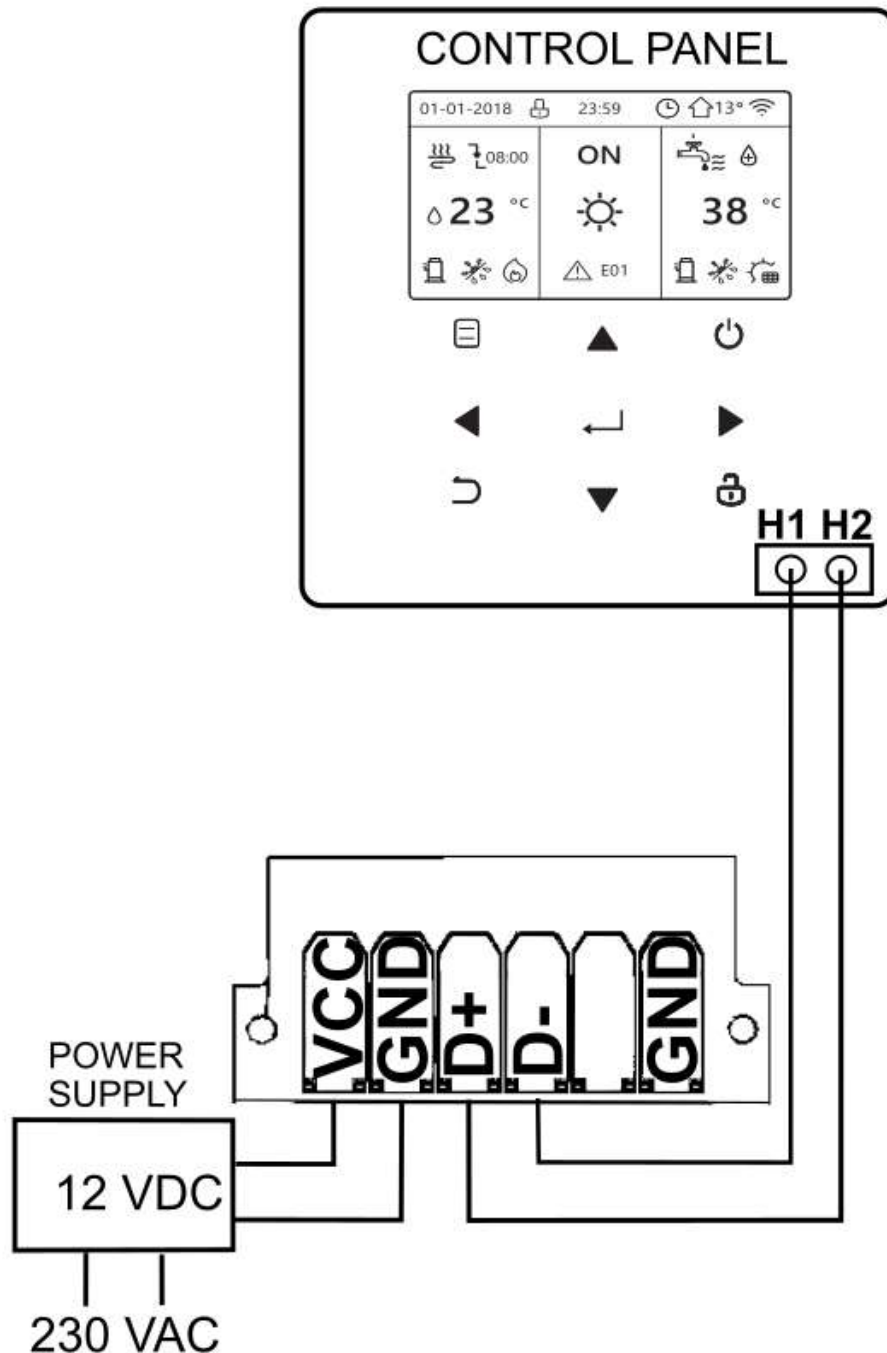
When selecting a transmission cable connecting the control panel with the heat pump module, the rule should be followed that the resistance of one core in the cable should not exceed 8 Ω and the total length of the cable should not exceed 100 m. The cross-section of the core should not be less than 0.25 mm². As the length of the transmission cable increases, its cross-section should also increase.

The YUKON heat pump connection.

The transmission cable should be connected directly to the **H1, H2** socket of the heat pump control panel (first disconnect the rear cover protecting the control panel) and to the **D+, D-** socket of the module. Attention. After connecting the transmission cable to the control panel socket, replace the rear panel cover. The **+12 V, GND** wires of the external power supply cable should be connected to the **GND, VCC** socket of the module. The external power

supply must meet the standards specified in the technical data table (if the external power supply is included with the module, it meets the required standards).



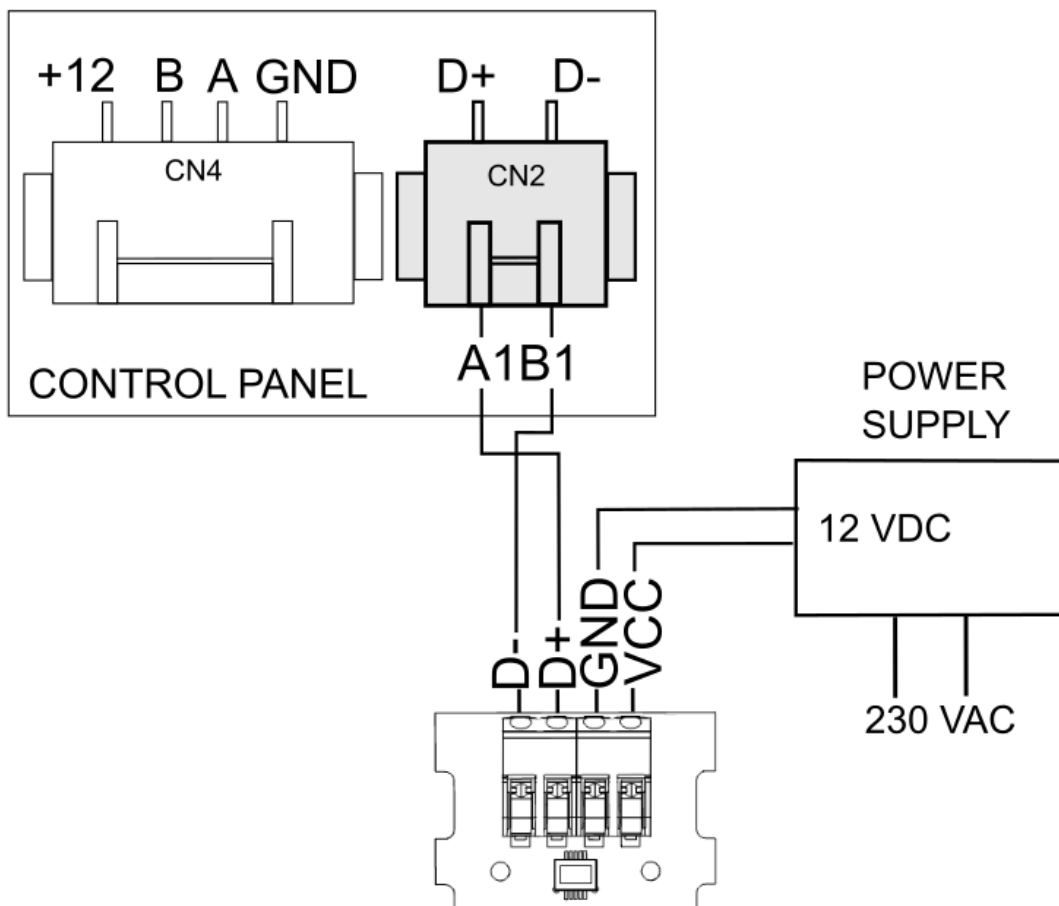
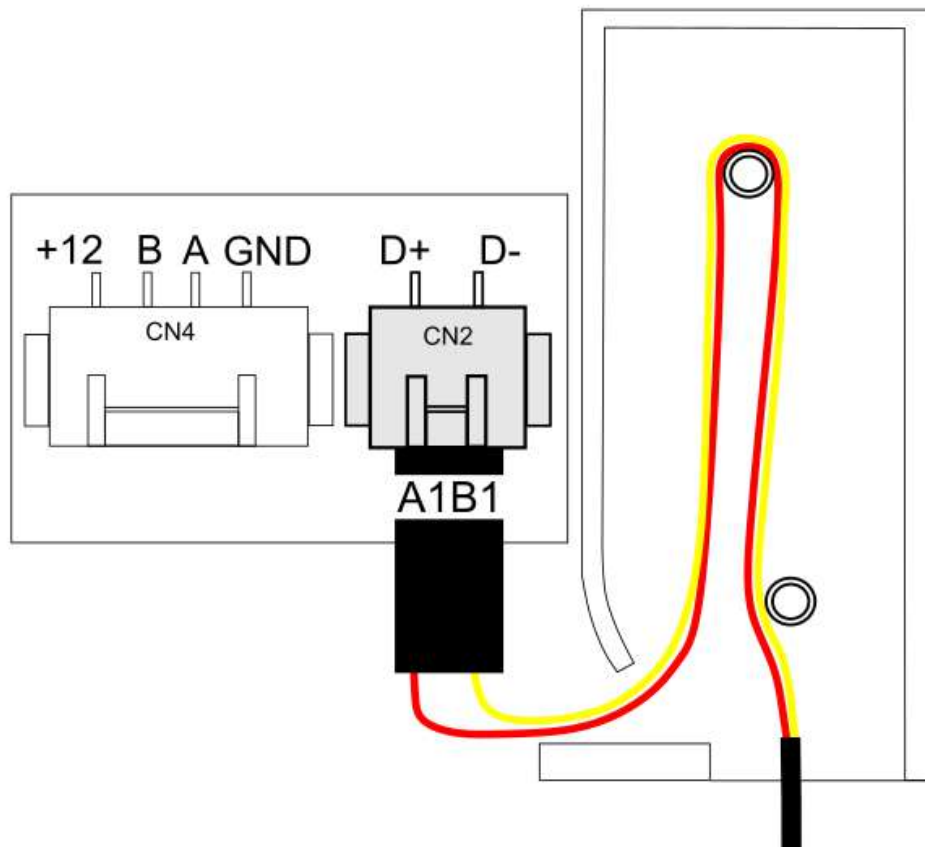


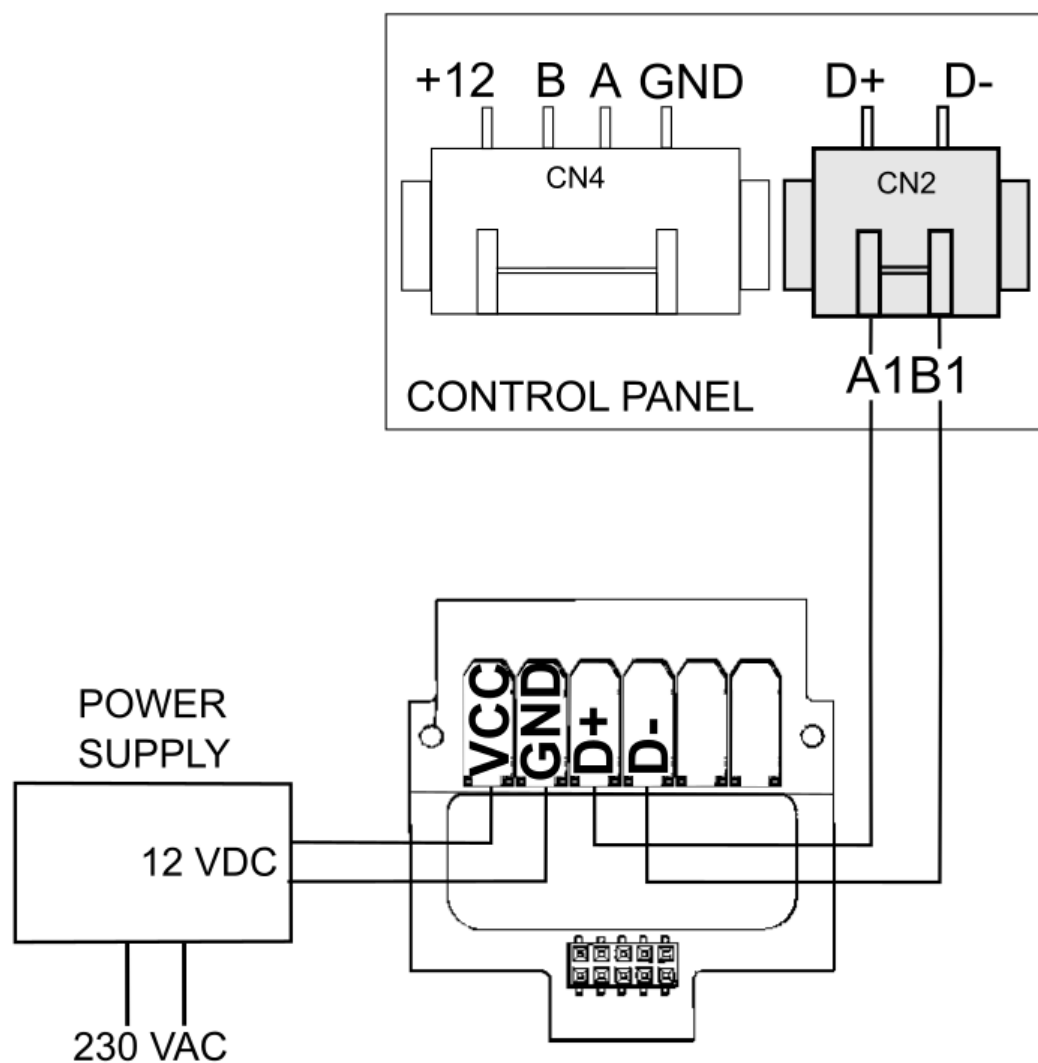
The ONTARIO heat pump connection.

The transmission cable marked with the letters **D+**, **D-**, previously connected to the module, should be connected to the heat pump main controller, using the socket in the control panel marked with the letters **A1B1** - connect **D+** and **A1** and **D-** and **B1**, respectively.

The connected transmission cable must be absolutely secured against being torn out or loosened from the panel socket by properly routing it around the mounting pin, as shown in the drawing below. The transmission cable is standard equipment of the module.

CONTROL PANEL





4. Configuration

Configuring the connection to the local WiFi network requires installing the S-Therm remote mobile application.

Android



[S-therm remote](#)

iOS



[S-therm remote](#)



During configuration, the installed mobile application on the mobile device requires a permanent BT wireless connection and connection to the WiFi mobile.
The module only connects to the **2.4 GHz WIFI IEEE 802. 11 B/G/N** network.



Correct connection of the SR-100 module to the WiFi network enables full operation and online configuration of heat pump via the <https://www.s-thermremote.com> website and the S-Therm remote mobile application.

Module configuration:

1. After turning on the module power supply, the module is in BT mode by default, which is indicated by the LED flashing blue. When the LED flashes green, hold down the module's button for approx. 5 sec. to enable the module's BT mode. 

The module's LED signaling means:

LED	
Flashes green 	Active connection to the WiFi 2.4GHz and no connection to the website.
Lights up constantly in green 	Active connection to the WiFi 2.4GHz and active connection to the website.
Flashes yellow 	No connection to the WiFi 2.4GHz
No lights up	No power the module.
3 x Red flashes 1 x Blue flashes 	The module is in BT v4.2 mode but there is no wired connection/transmission to the heat pump.
3 x Red flashes 1 x Green flashes 	The module is in WiFi 2.4GHz mode but there is no wired connection/transmission to the heat pump.
Lights up constantly in blue 	The BT v4.2 connection between the module and the mobile device is permanently active.
Flashes blue 	The module has BT v4.2 mode enabled and is ready to work with a mobile device.
Quickly flashes yellow 	The module changes the operating mode: BT v4.2 / WiFi 2.4GHz.
Flashes purple 	The module has the WPS function enabled.

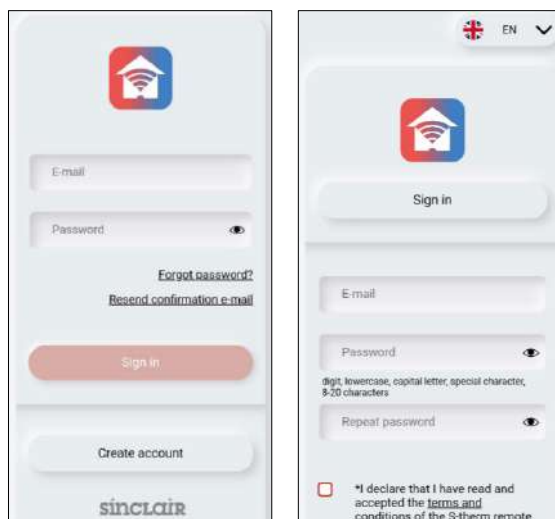
2. After downloading and installing the S-therm remote mobile application, turn it on, on the mobile device.
3. Sign in to the previously created user or installer account.



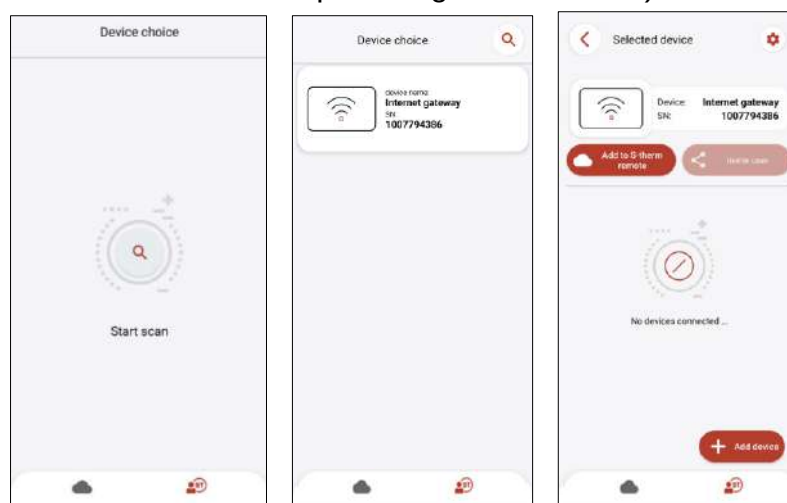
You can register your own user account - select *Create account* and follow on the screen instructions. Consent confirmation is required (*).



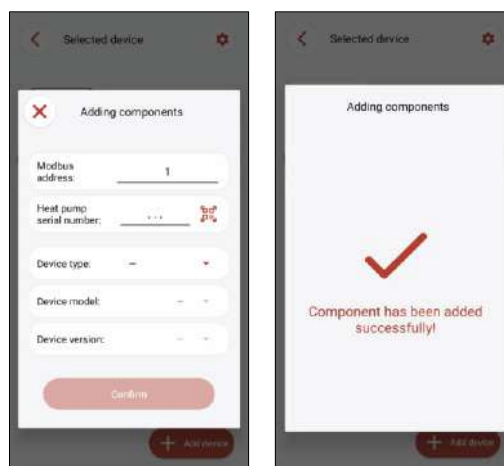
The installer account is created only by the manufacturer of the module/heat pump. For this purpose, please contact the manufacturer of the device/heat pump.



4. Select icon  (the BT connection - if BT is not enabled on your mobile device, the application will ask you to enable BT) and start scan in the "Device choice" and then select the module (internet gateway) you want to configure by SN factory number (factory number read from the module label plate, e.g. 1007794386).



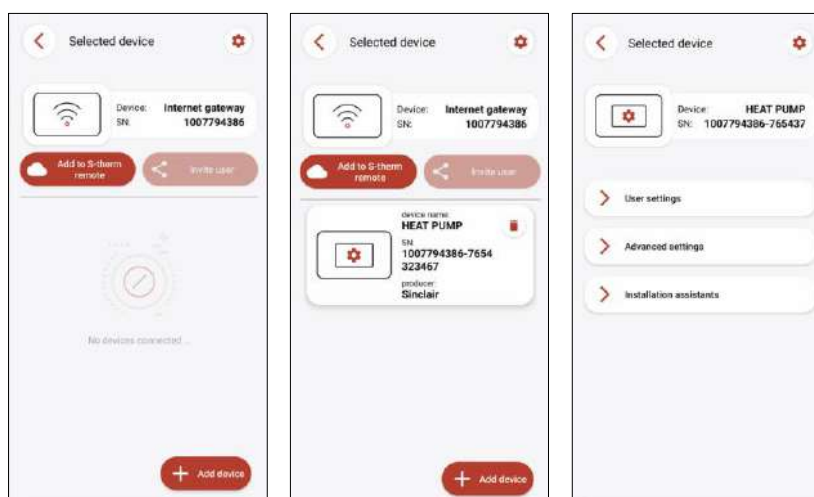
5. Add a "Modbus" device (heat pump) by selecting the "Add device" option. Before adding the device, check the Modbus address of the heat pump in the heat pump service settings menu - by default the Modbus address is set to „1". Then enter FN number (only heat pump factory number e.g. 1007794386-7654323467). Select: Device type: (default: Heat pump), Device model: (e.g. SMH-40IRBC), Device version: (default V1).



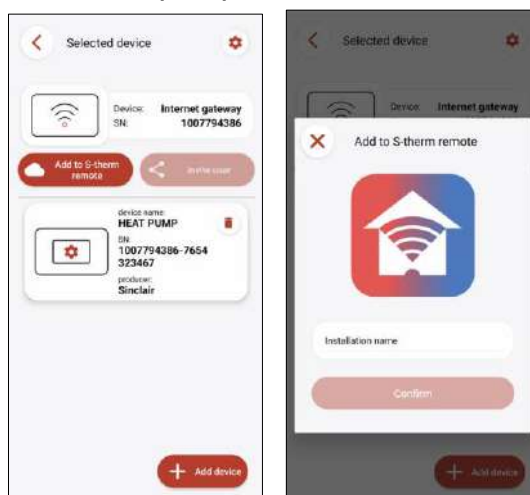
6. Configure the heat pump "locally" from the User settings/Service settings - only optional.



The description of the heat pump operation is available in the main heat pump manual.

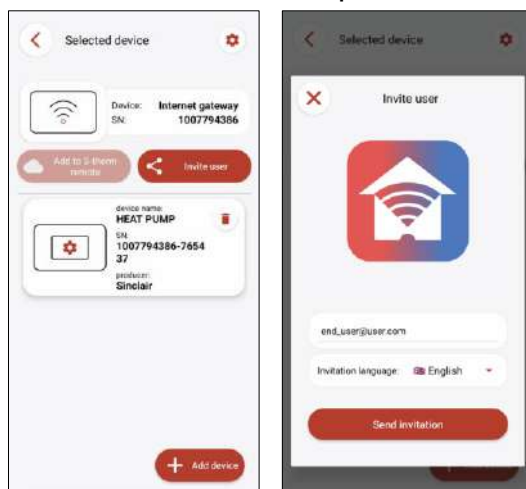


7. Add the installation to the installer account ("Add to S-therm remote" button) to gain remote access to the installed heat pump.



8. Invite the installation user to the website. The installer's remote access to the device will be possible only after the installation user has set up an account in the website and after

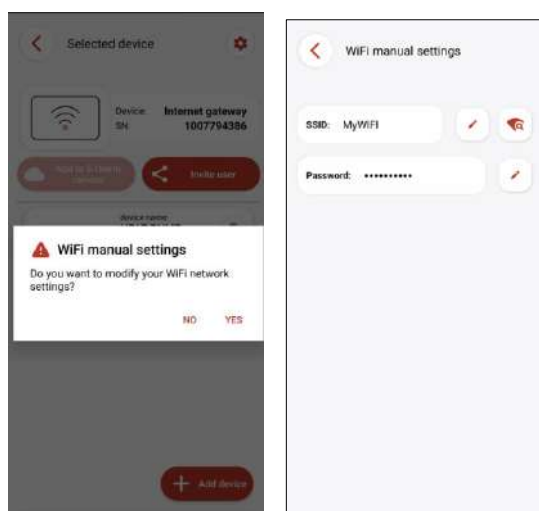
accepting the invitation sent, accepting the regulations and consents and configuring the WiFi network. After pressing the "Confirm" button, a message with a link to set up an account/log in to the website will be sent to the specified e-mail address.



After the invitation sent by the installer to the user, an additional window appears asking about the WiFi manual configuration– select “YES” and enter the SSID and password of the WiFi network.



The module only connects to a 2.4 GHz WIFI IEEE 802. 11 B/G/N network.



For a quick connection to a WiFi, without entering a password, you can use the WPS

function. To enable the function, hold the  button on the internet module for 10 sec. The enabled WPS function is indicated by a LED flashing purple. Then press the WPS button on the router/access point and wait until the internet module connects to the WiFi by itself. If the WiFi name or password has changed, the WPS function must be re-enabled on the internet module.



The WPS support is only available in the module software version 3.02 or later.

9. After completing the module configuration, it will be automatically switched to WiFi mode. To repeat the configuration process, switch the module back to BT mode by holding the



module button for 5 sec.

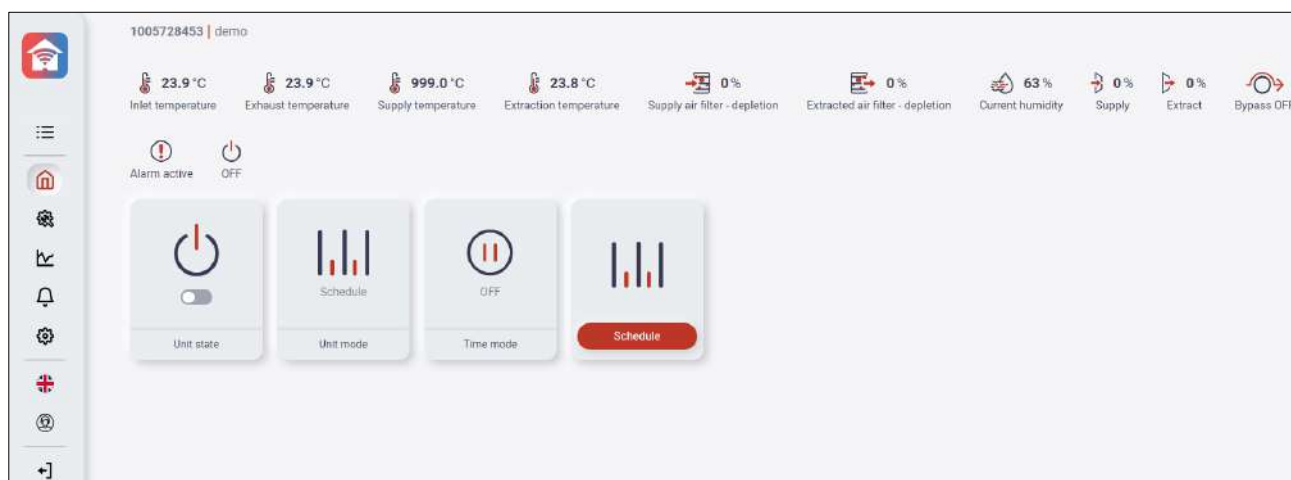
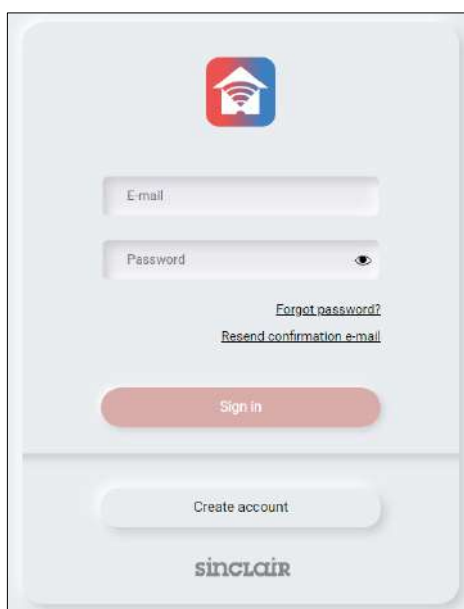
10. Wait a few seconds until the module switches to WiFi mode, at which point if the LED is constantly on green, it means that there is an active connection to the WiFi and the website - correct completion of the module configuration.

5. Remote access to the device via the website

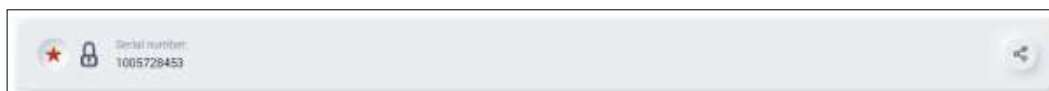
Log in to the <https://www.s-thermremote.com> website.



You can only use only the S-Therm remote mobile application - the website is displayed in a responsive version.



1. Installation successfully added to the installer account but not yet accepted by the user. If you need to change the e-mail address, click the user invitation button from the service technician/installer support panel.



2. The installation has been successfully added to the installer/service technician account. In the case of a correctly configured WiFi and a correctly installed installation by the user (legal consent required), the service technician/installer/manufacture has the ability to enter and supervise the user's installation.



6. Technical data

Power supply	5... 12 VDC Attention: the module should be powered by an external power supply of the PS2/LPS type according to EN 62368-1 or a companion device intended to power the module.
Power consumption	1.7 W
Degree protection	IP 20
Working conditions	+5...35°C, 0...95 % RH (no water condensation)
Pollution degree	2 acc. EN 62368-1
Storage temperature	-25...+65°C
Transmission	- wired: RS485 (Modbus RTU) with heat pump, 2.4 GHz WIFI IEEE 802. 11 B/G/N with the website and S-therm remote mobile application, - BT v4.2 LE with the S-therm service mobile application.
Max. transmit power	10 dBm
Receiver category	2
Display	1 x LED multicolor
Control	1 x capacitive touch button
Self-clamp connectors	Wire cross-section: 0.25...0.75 mm ² , stripping length: 8...9 mm
Dimensions	80 mm x 80 mm x 10 mm 80 mm x 80 mm x 20 mm
Software class	A
Installation method	- On the wall: screws - On the wall: screws. Flat metal surface: magnets

7. Storage and transport conditions

The module must not be exposed to the direct influence of atmospheric conditions, i.e. rain and sun rays, and vibrations higher than typical during road transport.

8. Conformity declaration

The purchased product meets the requirements of **Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014** on the harmonization of the laws of the Member States concerning making available on the market of radio equipment and does not cause harmful interference with radio communications to other equipment, in a residential area, provided that the product is correctly installed and used in accordance with the requirements of this manual.

9. Safety recommendations

- Use the device as intended, keep it in a dry environment, and install it indoors only.

- Connecting the device inconsistently with the manual or incorrectly may cause the device to malfunction or interrupt its operation.
- The device should be started and connected only by a person familiar with these manual.
- The device is not a toy. Install it out of reach of small children.
- Under no circumstances may any modifications be made to the structure of the device.

10. Information about documentation

The manual is a supplement for the heat pump manual. In particular, except for this manual, the heat pump manual should also be observed. We are not responsible for any damages caused by failure to observe these manual.

11. Applied symbols

In this manual the following graphic symbol is used:



- symbol indicates additional advice and information.

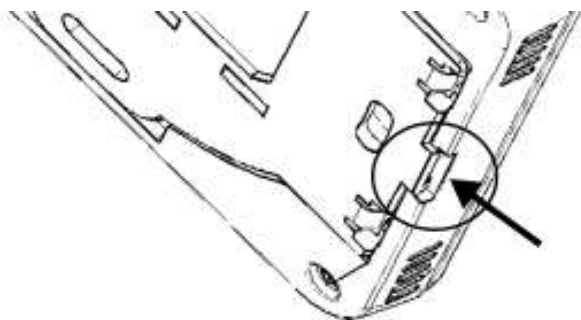


- symbol indicates important information.

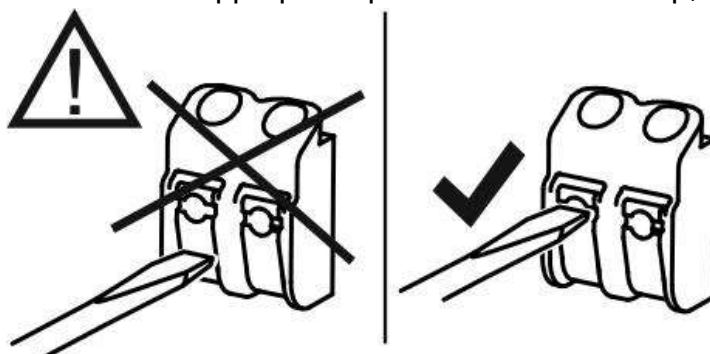
Note: Important information is marked with symbols to make it easier to read the manual. However, this does not exempt the user from complying with requirements not marked with symbols.

12. Uninstallation

To disconnect the module from the mounting surface, insert a flat element, e.g. a screwdriver, into the slot indicated below. This will unclip the mounting frame latches and allow you to disconnect the module.



Removal of the cable requires rotating the conductor of the cable while pulling it out of the self-clamp, with the self-clamp latch depressed at the same time, e.g., with a flathead screwdriver in the appropriate place of the self-clamp, as shown below.



INFORMATION CLAUSE – INFORMATION PROVIDED PURSUANT TO ARTICLE 3(2) OF THE DATA ACT

§ 1. General provisions

1. This information clause applies to the data generated by the following product SR-100 S-therm hereinafter referred to as the Product.
2. The information is provided to the User in order to comply with the information obligation under Article 3(3) of the Data Act.

§ 2. Data generation rules (type, format, volume, method) and duration of data retention

1. The Product generates the following data („Product Data”):
 - 1) Data generated and stored in the device's flash memory (readable only via a dedicated interface, such as an online system, mobile application):
 - information about the device's software and hardware.The device is capable of storing data in 500 records. Once this limit is reached, the data is overwritten.
 - 2) Data generated and transmitted exclusively to the S-therm internet system (hereinafter referred to as the System):
 - operating statuses of heat source
2. The estimated amount of generated Product Data is: 40 samples/hour.
3. The Product generates data continuously. Product Data is transferred to the System in real-time, with the proviso that:

The data stored on the device is generated regardless of whether the Product is connected to the Internet. When the Product is active and connected to the Internet via a Wi-Fi network, the data stored on the device is transferred to the System, i.e., through the synchronisation of data collected in the offline mode. Other data generated by the Product is transferred continuously only when the Product is active and connected to the Internet via a Wi-Fi network. All Product Data is generated regardless of User activity.
4. Archived readings of the Product parameters are available in the User account in the System for a period of 1 year from the date of their collection. The provisions on personal data protection apply to the storage of personal data.

§ 3. Access to Product Data

1. The User may access Product Data via the System. In order to access the System, the User must create an account in the System, i.e., the User must accept the System's rules and regulations. The User may download the data using the option to generate a csv. file in the 'Chart' tab.
2. The User may also access the data stored on the device directly on the device itself.
3. Due to the specific nature of the Product, the User is generally unable to delete Product Data. The Product collects data necessary for its proper functioning and for servicing. To the extent that the data stored on the device is not necessary for its proper functioning, the Product allows for its deletion by an appropriately authorised person (authorised service technician, installer). The provisions on personal data protection apply to the deletion of personal data.
4. Detailed technical information regarding access to Product Data is available in the System.
5. The terms and conditions for sharing Product Data, its use and the quality of the access service are described in detail in the System rules and regulations available at <https://www.s-thermremote.com/information-center/document/terms-and-conditions>
6. The quality of the service depends, i.e., on the stability and bandwidth of User internet connection.

Register of changes:



The module manufacturer reserves the right to make improvements and modifications to the device.

v2 – 06-2025 - description of installation and electrical connection for two hardware versions of the internet module.

v3 – 11-2025 – “Data Act” clause added.

V4 – 04-2026 – changing descriptions for only 1 mobile application.

NOTE CONCERNING PROTECTION OF ENVIRONMENT



This product must not be disposed of via normal household waste after its service life, but must be taken to a collection station for the recycling of electrical and electronic devices. The symbol on the product, the operating instructions or the packaging indicate such disposal procedures. The materials are recyclable in accordance with their respective symbols. By means of re-use, material recycling or any other form of recycling old appliances you are making an important contribution to the protection of our environment. Please ask your local council where your nearest disposal station is located.

In case of quality problem or other please contact your local supplier or authorized service center.

Emergency number: 112

PRODUCER

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