

TESY CN04 Built-In Wireless Communication Module Instructions

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CN04 Built-In Wireless Communication Module Instructions Manual



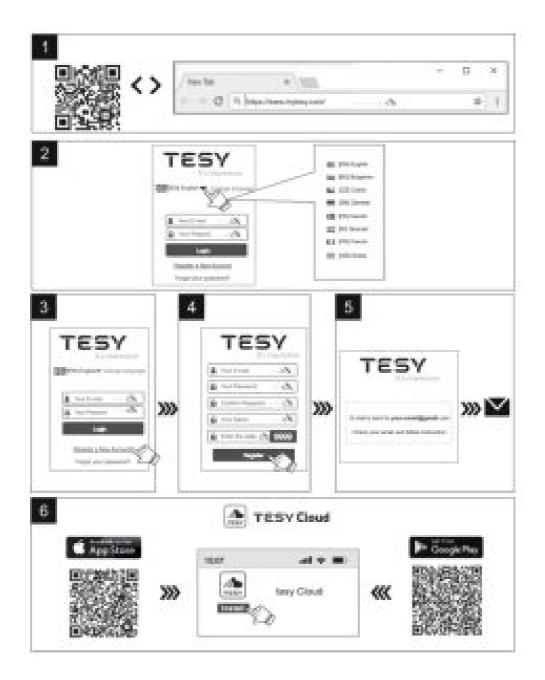




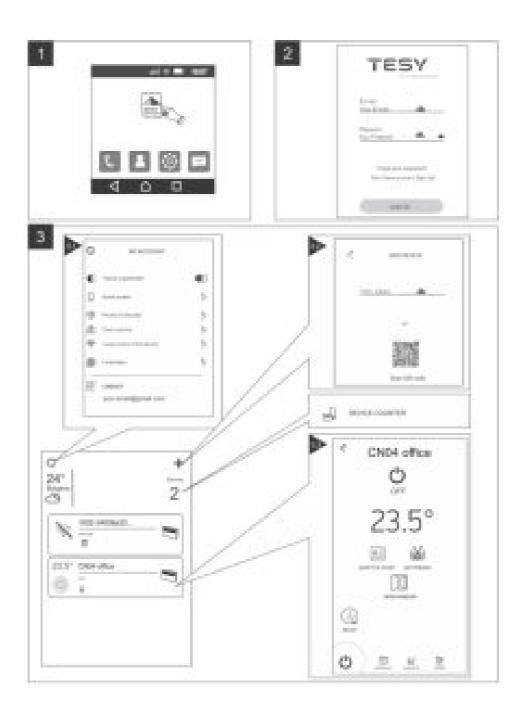
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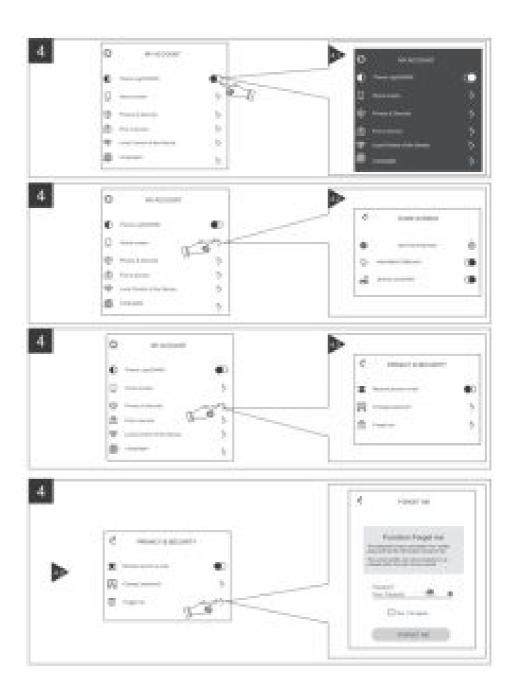
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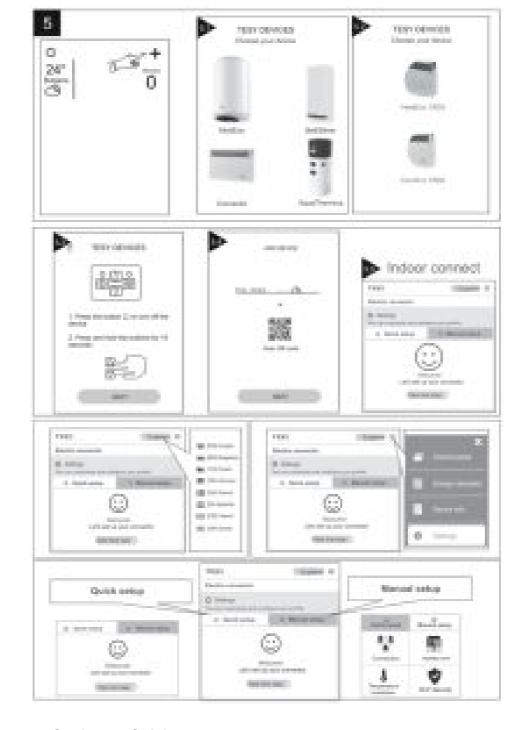
myTesy



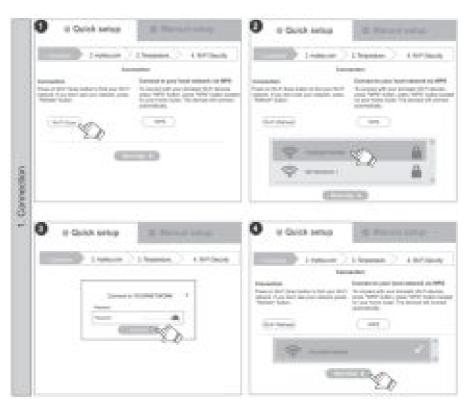
Settings



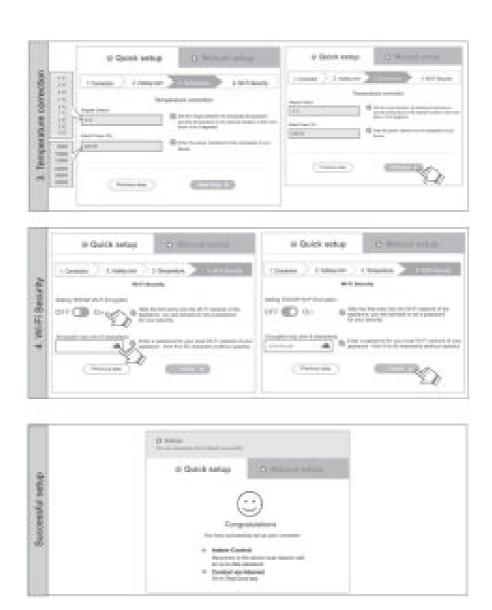




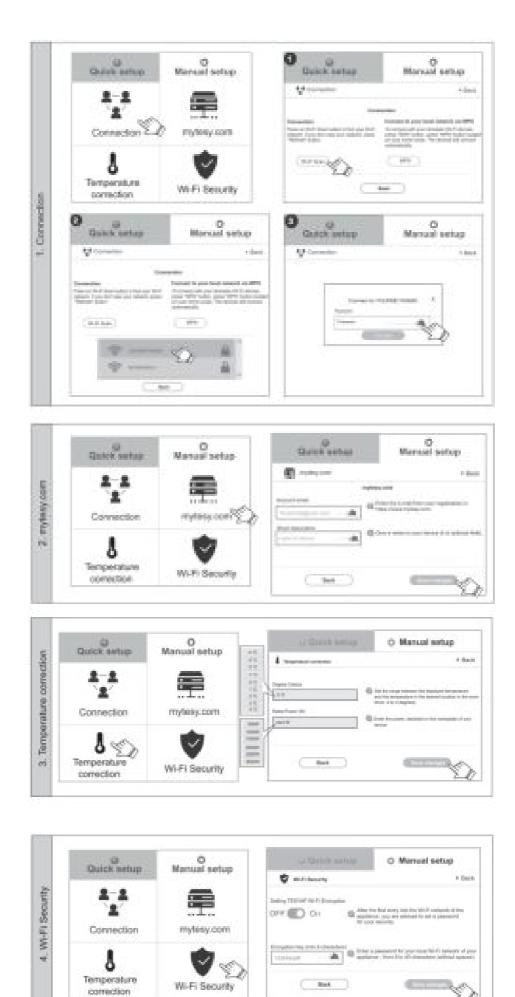
Indoor connect - Settings - Quick setup

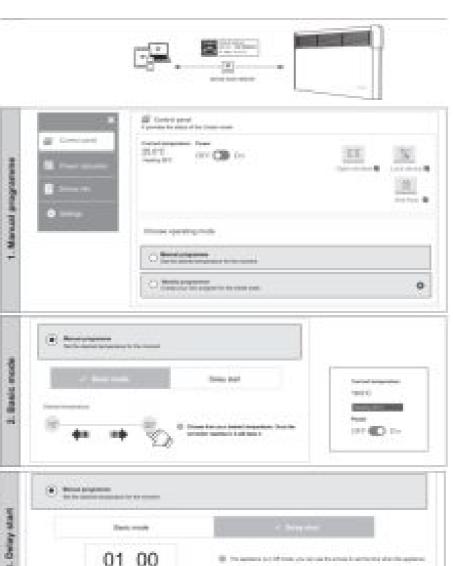




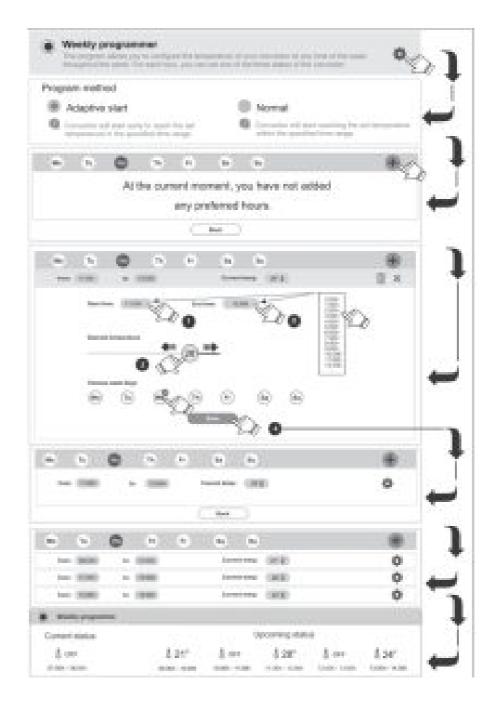


Indoor connect - Settings - Manual setup

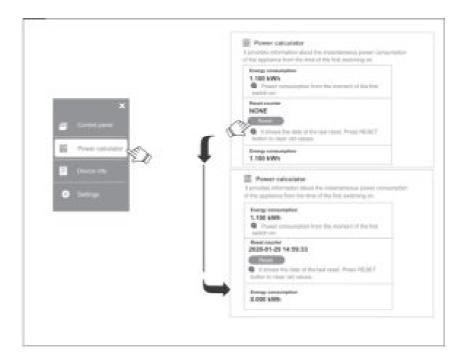




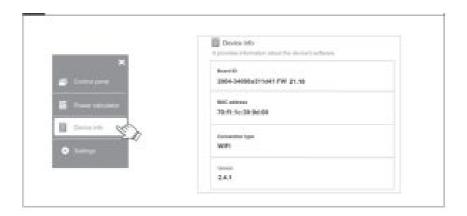




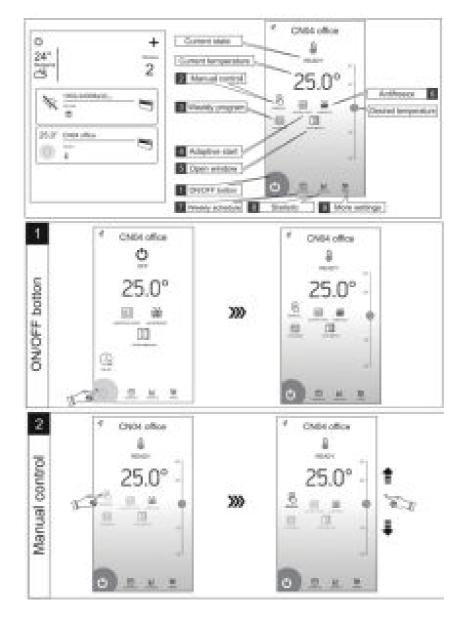
Indoor connect – Power calculator



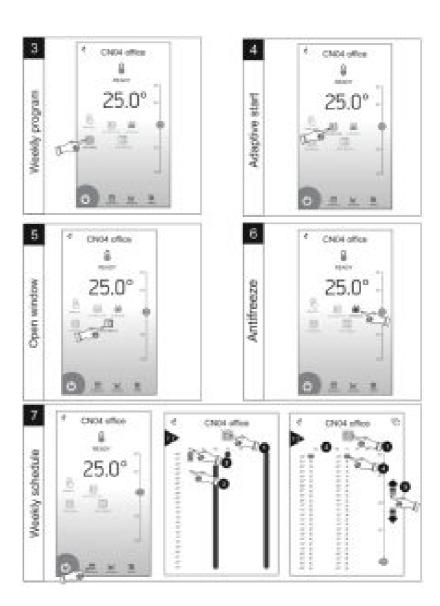
Indoor connect - Device info

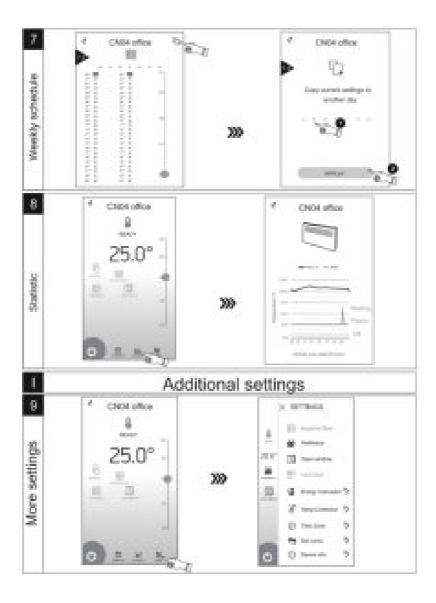


Control via internet

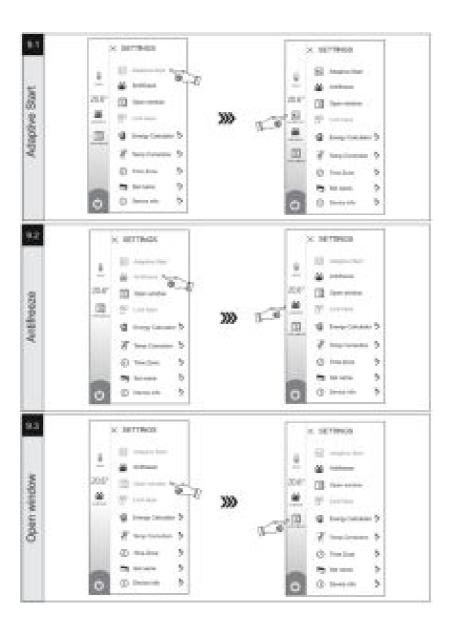


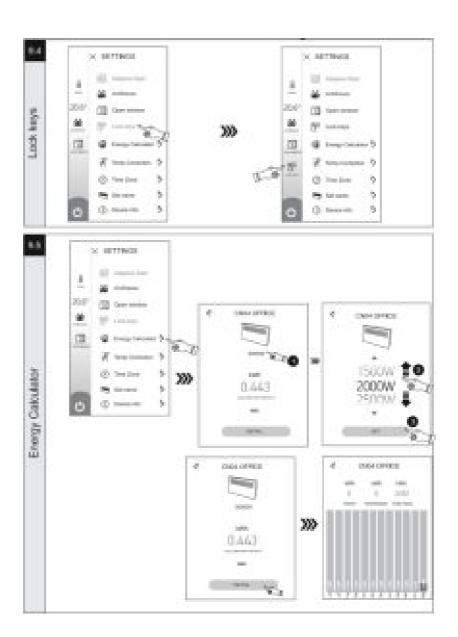
Device control

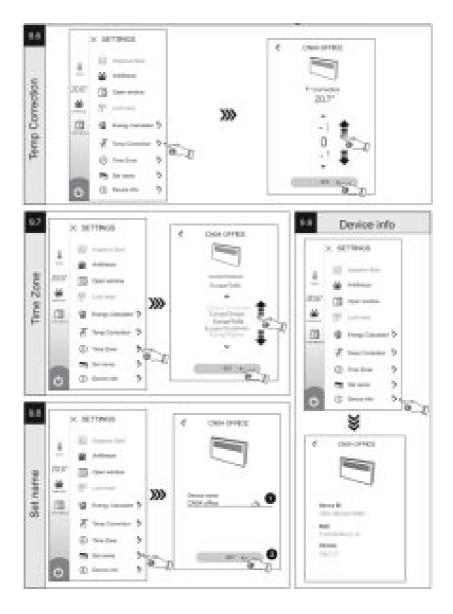




Additional settings







Thank you for your trust as a consumer which you have granted to us by purchasing the electrical appliance with a built-in wireless communication module. The

the only condition for using the inbuilt wireless communication module in TESY appliances is to have a device that is able to connect to Wi-Fi networks and has a reliable Web browser and internet connection.

SPECIFICATION OF THE BUILT-IN WIRELESS COMMUNICATION MODULE (WI-FI)

Product	Wi-Fi module
Model Name	ESP32-WROOM-32E
Frequency range	2. 412 – 2.484 GHz
Rated RF output power	20 dBm
Number of channels	13
Separation between channels	22 MHz
Modulation type	OFDM
Antenna type	PCB/3.4bBi
Protocol	IEEE802. 11 b/g/n20/n40

EU DECLARATION OF CONFORMITY

Hereby, TESY Ltd. declares that the Electrical convector with a built-in wireless communication module – ESP32-WROOM-32E is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: https://tesy.com/products/heating-appliances/electric-panelconvectors.

ORDER OF THE STEPS FOR CONNECTING THE INBUILT WI-FI MODULE IN A TESY APPLIANCE TO THE INTERNET /QUICK START A/

You need to register on www.mytesy.com. If you already have a registration, go directly to SETTINGS OF THE IN-BUILT WIRELESS COMMUNICATION MODULE Registration on www.mytesy.com.

- 1. Open the web address www.mytesy.com in the address bar of the web browser.
- 2. You can change language from the drop-down menu located under TESY Brand.
- 3. Choose "Register as a new user".
- 4. Fill in the registration form using a valid email address.
- You will receive registration confirmation and a link for activation of your ACCOUNT. Follow the link to confirm the newly created ACCOUNT.

Note: If you do not receive an e-mail in your inbox, please check the Spam or Junk folder.

6. There is an available application tesyCloud for a smartphone or a tablet for both Android and iOS operating system. The applications can be found in the store's Google Play and App Store (the device on which the application will be installed should be with the latest updated version of the respective operating system or at maximum up to one previous version).

SETTINGS OF THE IN-BUILT WI-FI COMMUNICATION DEVICE

- 1. Open the "tesyCloud" app.
- 2. In the "E-mail" and "Password" fields enter the email address and password that you have specified and confirmed in your registration on https://www.mytesy.com.
- 3. Press the «LOG IN" button.

The main screen of the app opens. Using commands from this screen, you can:

- 4. Personalize your user profile;
- 5. Add different TESY appliances;
- 6. Control the appliances in the list of devices and monitor their current status;

Status indication of the appliance:



the appliance has reached the set temperature;



the appliance is heating up;



the appliance is offline and cannot be controlled remotely;

(U)
the appliance is turned on. Press the button to turn the appliance off;
the appliance is turned off. Press the button to turn the appliance on;
B
Manual mode – you can set the desired temperature in the room to be heated by moving the slider left and ight.
P=
Program mode – the appliance functions when the settings in Weekly Program menu have been done week programmer).
You can exit this mode by switching the appliance on or off from the ON/OFF button, or by changing the setting of he set temperature, i.e. you are in the manual settings regime.
Delay Start mode – the appliance is in Off mode, you can use the arrows to set the time when the appliance is to be switched on within 96 hours.
Custom app settings.
To configure your account press the button on the main screen of the app. On the screen you will see the parameters that can be changed at any time, as well as various useful information:
Theme light/dark;
Home screen;
Privacy & security;
Find a service;
Local control of the device;
Privacy & security; norder to protect your personal data, the "Forget me" function is provided and is available in the "Privacy &
Security" menu:
(1) > (1)
Add a Cloud device
To add a device using the mobile app, press the «+» button. Select the type of device that you want to add:
Press the button to turn off the device;

• By pressing the buttons ▲ and ▼ on the convector panel at the same time for 10 seconds, N_,_ ___ "flashes on

Note: Whether the module is switched on is indicated by a steady Wi-Fi symbol on the control panel.

the display, and the symbols rotate. The appliance returns to "Factory settings".

• Turn on the WIFI module.

• Turn on the wireless network of your device;

Note: In order to prevent unauthorized access to the wireless network of your appliance, the network is available (visible) for a period of 5 minutes after the initial power-on or reset. If you exceed this time it is necessary to reactivate/restart the wireless network of your appliance – see "Instructions for use and storage" – "Factory settings reset" function.

Press «NEXT»

Use your smartphone (,i-pad, laptop) to activate the function for detecting wireless networks (Wi-Fi) Manually enter the wireless network name of the device (TCHxxxxxxxxx), or scan the QR code.



Note: The wireless network name is case-sensitive.

Note: The QR code and the wireless network name are marked on a label next to the rating plate of the appliance.

Press «NEXT». The app automatically connects to the wireless network of the device.

A new screen opens – local interface Indoor connect. In order to connect the converter to your home Wi-Fi network and from there to the internet, complete the following sequence of steps from submenu Quick setup /QUICK START C/ from menu Settings:

Connection >> 2. Date and time >> 3. mytesy.com >> 4.

Temperature correction >> 5. Wi-Fi Security

Note: After finishing the Quick setup, if you want to proceed again with the settings of the convector, you must select the menu Manual setup./QUICK START D/

CONTROL OF THE CONVECTOR THROUGH THE BUILT-IN WI-FI COMMUNICATION DEVICE

The convector can be controlled via the built-in Wi-Fi communication device via the Control panel menu.

Control panel - Choose operation mode

Open window (only for model CN04) — The appliance is equipped with an integrated electronic device that automatically switches off the heating power if a sharp decrease of temperature is found in the room when a window or a door is open. When the temperature in the room begins increasing the heating will be automatically restored.

Lock device – You can lock the buttons, in order to prevent any changes to the settings.

Anti-frost – If the room temperature falls below 5 degrees Celsius and the convector is off (the red LED is not lit, but the mechanical switch is in position "I" (On)), the heater will be automatically switched on in order to prevent from freezing.

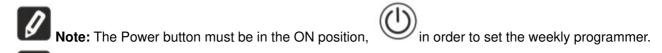
Basic mode - Choose from your desired temperature. Once the convector reaches it, it will keep it.

Delay start – The appliance is in Off mode, you can use the arrows to set the time when the appliance is to be switched on within 96 hours. Once the time has passed, the convector will always be launched in the "Manual program".

Weekly program – This program allows you to configure the temperature of your convector at any time of the week throughout the week. For each hour, you can set one of the three states of the convector.

Settings of weekly program /QUICK START E 4./- you should enter the following parameters:

- Start and end time;Desired temperature;
- · Weekdays;
- · Button Save.



Note: Periods out of the set time periods are in OFF mode.

Adaptive start – The convector will start early to reach the set temperature in the specified time range.

Additional functions:

Power calculator /QUICK START F/- It provides information about the instantaneous power consumption of the convector from the time of the first switching on.

Device info /QUICK START G/ – It provides information about the device's software.

Operation via the internet

From the list of registered devices, select the device you want to control.

A screen opens with controls that allow you to select the mode of operation, to monitor the current status of the appliance, to make a detailed reference of the consumed energy.

- 1. To be able to operate your device, it must be switched on.
- 2. Manual operation mode press the button.

When you select the "Manual" mode. , you can set the desired temperature in the room to be heated by moving the slider left and right. During heating, the message "HEATING" will appear on the screen. When the appliance has reached the set value the message "READY" will appear on the screen.

3. Weekly programmer mode -

In Program mode, the appliance functions when the settings in the Weekly Program menu have been done. (week programmer). You can exit this mode by switching the appliance on or off from the ON/OFF button, or by changing the setting of the set temperature, i.e. you are in the manual settings regime. To see the

time schedule of each program and to change it, if needed, press the buttons (see P.7)

- 4. Adaptive start to activate, press Adaptive start control is a function which predicts and initiates the optimal start of heating up in order to reach the set temperature in the desired time.
- 5. The open window to activate, press (only for model CN04
- 6. Anti-frost function to activate/deactivate, press
- 7. Weekly programmer

To see the schedule of operation for each program and if necessary, to change it, press the



7.1 A diagram of the weekly schedule of operation of the electrical convector for the selected program opens. Select a day from the diagram to see the detailed schedule and edit the current settings.

- 7.2 A new screen opens where you can:
- · Select a program;
- · Select day of the week;
- Scale with the equivalent of temperature. Using the slider on the the scale you can select the preferred reading;
- Bar chart visualizing the setting for operation by hours.

Algorithm for creating a schedule for operation of an electrical convector:

- 1. Select a program of operation;
- 2. Select day of the week;
- 3. Select the temperature using the slider on the right of the screen.
- 4. Select the bar for the hour you want to set up. The length of the bar changes and the set temperature is written in it.
- **7.3.** Using the button in the upper right corner of the screen you can copy the current settings for other days of the week. A new screen opens where you can select all days to which you want to copy the settings.
- 8. Activity over the past 24 hours.

The schedule displays information about the operation of the appliance over the past 24 hours.

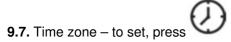
- Hourly status (heating, ready, off);
- Temperature
- 9. Additional settings
 - 9.1. Adaptive start to activate, press
 - 9.2. Anti-frost function to activate/deactivate, press
 - 9.3. Open window to activate, press (only for model CN04)
 - 9.4. Lock device you can lock the buttons, in order to prevent any changes of the settings



- 9.5. Power calculator it provides information about the instantaneous power consumption of the convector from the time of the first switching on:
- Power consumption from the date of the last reset;
- The counter value can be cleared using the "Reset" button.
- Detailed information about the consumed energy for the current day, the previous day, for the year.
- Note: In order for the calculator to function correctly you need to select the power of the convector.
 - **Note:** The power of the convector is marked on the rating plate of the appliance.
- Note: The calculator is not a precise measuring device. It is a function that gives you information about

the consumed energy.

9.6. Temperature correction for the sensor – to set, press



9.8. Set name — using this menu you can assign a name to each device you control via the app. In the "Device Name" field enter a recognizable name and confirm it with the "SET" button.

9.9. Device info — it provides information about the device's software.

TESY's team reserves the possibility to change and add new functions in the products with an inbuilt Wi-Fi module, as well as to change the instructions in accordance with the new versions of the software.

For full instructions for use and store, follow the link below: https://tesy.com/products/heating-appliances/electric-panelconvectors.

PROBLEM	SOLUTION
Unsuccessful connecting to the home Wi-Fi network (wireless connection)	Check if the modem is switched on.
	If you use a portable computer, make sure that the wireless connection switch on the front, at the side or at the back of the portable computer is in "on" mode.
	Make sure you type your home network password correctly
	Wait for about a minute and check again if the connection is establishe d.
The convector does not appear in the application	Check if your router is connected to the Internet.
	The convector has to be connected to a wireless router (modem) in your home (office).
	Check if the convector is properly connected to the wireless router (mo dem).
	Check whether you have entered correctly the email address of your p rofile.
When you select the "Search for netw orks" option on your Smart device, the convector is not seen	Go near the convector
	Check if the appliance is connected to the electrical grid or if it is turne d off by the mechanical switch.
The convector is properly connected b ut does not work.	Restart the application.
When you select the "Search for netw orks" option on your Smart device, m ultiple devices are seen.	Select the convector whose number is shown on a label next to the rating plate.
If the inbuilt wireless module does not see the wireless router (modem)	Place the convector in a position with the wireless router (modem) in si ght.
	Use an additional wireless modem to boost the signal of the wireless r outer (modem)

After I have connected to the wi-fi net work of the appliance, I cannot see it on the browser panel	Enter the 10.0.0.1 address in the box for entering the browser address and you will see the application.
You have forgotten the password for the wireless Wi-Fi device of the convector	If you have forgotten your password for encrypting your network, you w ill have to use the RESET function of the convector to turn it back to factory settings. You have to push an d hold the "up" and "down" arrows simultaneously when the convector is in an "off" mode. Then you have to set the convector again.
When attempting at restoring the factory settings, the appliance does not restore the factory settings	At the restart, the appliance has to be switched off by the "small" switch on the control panel. The display should be lit up but no other indicators should be on.
Your appliance could not reconnect to the wireless router (modem)	You have a new wireless router (modem). Please set the convector ag ain.
	A factory reset has been performed. Please set the convector again.
	Not assigned product to the home Wi-Fi network
Upon opening the mobile application, the main menu is visualized in the electrical convector's network	If upon activation of the mobile application the main menu of the applia nce is loaded, and not the dedicated screen for control via the Internet, you need to stop the direct Wi-Fi connection with the appliance establi shed through its aerial wireless network TCHxxxxxxxx and then connect to your home network



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Documents / Resources



TESY CN04 Built-In Wireless Communication Module [pdf] Instructions CN04, Built-In Wireless Communication Module, CN04 Built-In Wireless Communication Module

Manuals+,