

Controllers

User's manual ST-507

EN



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I. Safety

Before using the device for the first time, the user should read the following regulations carefully. Not obeying the rules included in this manual may lead to personal injuries and device damage. The user's manual should be stored in a safe place for further reference.

In order to avoid unnecessary errors and accidents it should be ensured that every person using the device has familiarized themselves with the principle of its operation as well as its security functions. If the device is to be sold or put in a different place make sure that the user's manual is there with the device so that any potential user has access to essential information about the device. The manufacturer does not accept responsibility for any injuries or damage resulting from negligence; therefore, users are obliged to take the necessary safety measures listed in this manual to protect their lives and property.

WARNING

- **High voltage.** Make sure the regulator is disconnected from the mains before performing any activities involving the power supply (connecting cables, installing the device etc.).
- The device should be installed by a qualified electrician.
- The regulator should not be operated by children.

NOTE

- The controller may be damaged if struck by lightning. Make sure the plug is disconnected from the power supply during storm.
- Any other use than specified by the manufacturer is forbidden.
- Before and during the heating season, the controller should be checked for the condition of its cables. The user should also check if the controller is properly mounted and clean it of dusty or dirty.



Care for the natural environment is our priority. Being aware of the fact that we manufacture electronic devices obligates us to dispose of used elements and electronic equipment in a manner which is safe for nature. As a result, the company has received a registry number assigned by the Main Inspector of Environmental Protection. The symbol of a crossed out rubbish bin on a product means that the product must not be thrown out to ordinary waste bins. By segregating waste intended for recycling, we help protect the natural environment. It is the user's responsibility to transfer waste electrical and electronic equipment to a selected collection point for recycling of waste generated from electronic and electrical equipment.

II. Description

The ST-507 Internet module is a device enabling remote control over the installation's operation via the Internet and is intended for cooperation with the ST-26402 strip.

The user controls the operation of valves in particular zones and may also change the set temperature, define weekly schedules etc. The user may monitor the history of temperatures in each zone in the form of legible charts.

Functions of the Internet module:

- remote control over the operation of the ST-26402 strip
- monitoring the history of temperatures
- editing the set temperature in each zone
- e-mail notifications about alarms

Controller's equipment

- power supply unit 5V DC
- RS T-connection
- RS communication cable for the boiler's controller

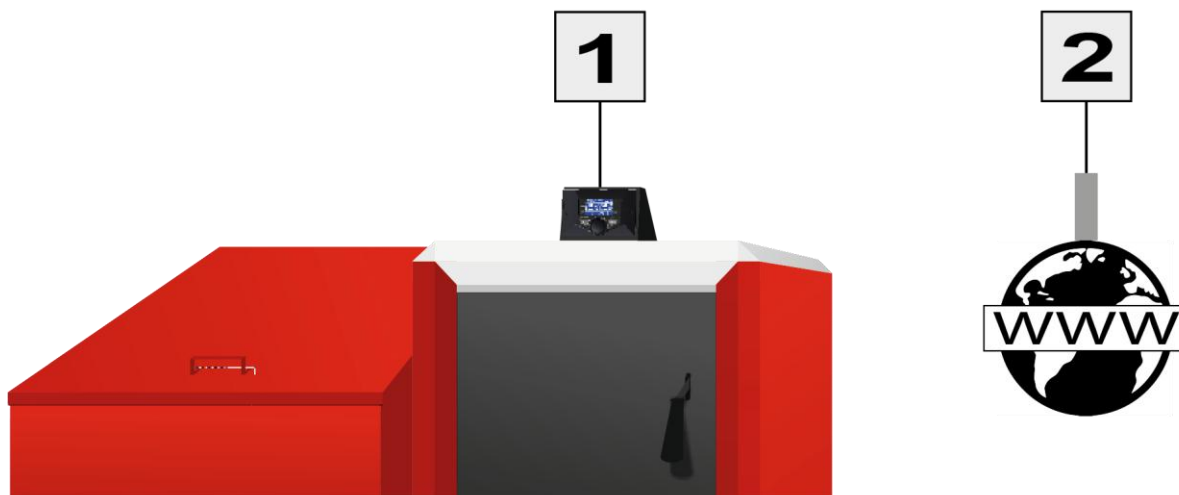
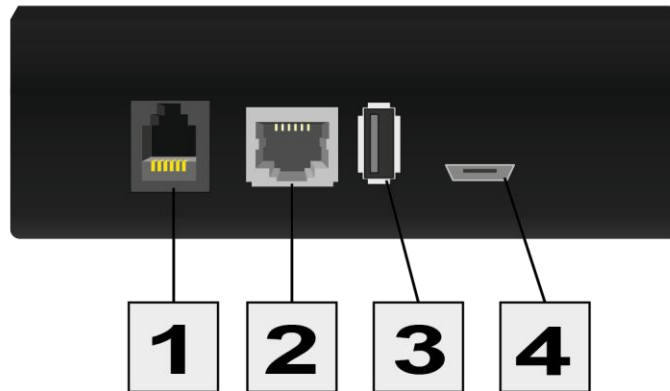
III. Installing the module

The module should be installed by a qualified person.



CAUTION

Incorrect connection of cables may lead to module damage.



	Communication socket with the controller	Communication socket with the Internet	USB socket	Power supply 5V DC
Number of connection	1	2	3	4

IV. Configuring the module

Installing the module with a controller

In the case of cooperation with the ST-26402 strip, the installation and operation process is intuitive. After a correct connection of the module, the Internet module should be enabled in the strip's fitter's menu (*Menu >> Fitter's Menu >> Internet module >> Registration*) – a registration code will be generated and it should be entered on the website.



CAUTION

The generated code is valid only for 60 minutes. If the registration on the website does not take place within that time, a new code should be generated.



CAUTION

We recommend using Mozilla Firefox or Google Chrome web browsers.

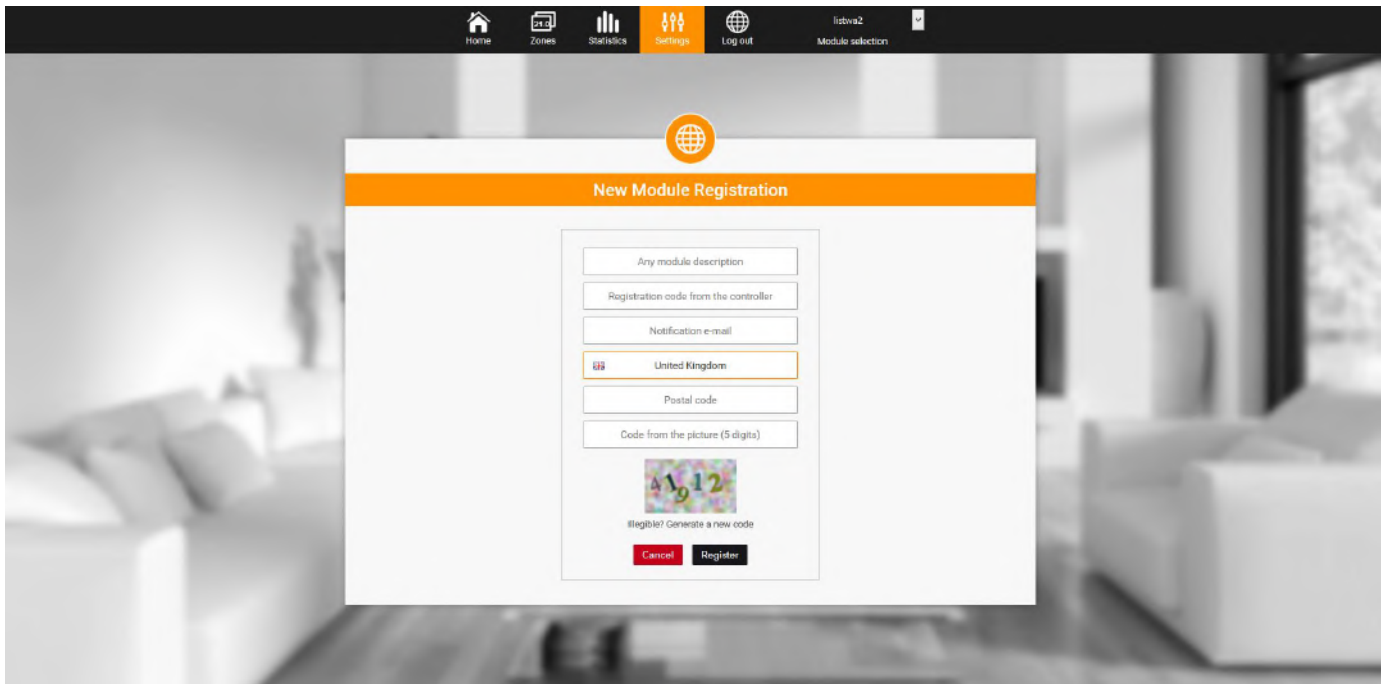
IV.a) Logging in on the website

After the code in the controller has been generated, the user should visit the website <http://oeg.emodul.eu>. First, the user's account should be created:

Registration panel for a new account at oeg.emodul.eu.

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After logging in to the account in the tab *Settings*, the user should enter the registration code generated by the controller. Any name may be assigned to the module (in the field module description):

The image shows a web interface for 'New Module Registration'. At the top, there is a navigation bar with icons for Home, Zones, Statistics, Settings (highlighted), Log out, and Module selection. The main content area features a white modal window with an orange header. Inside the modal, there are several input fields: 'Any module description', 'Registration code from the controller', 'Notification e-mail', a dropdown menu for 'United Kingdom', 'Postal code', and 'Code from the picture (5 digits)'. Below the last field is a CAPTCHA image showing the numbers 4, 1, 9, 1, 2. A red 'Cancel' button and a black 'Register' button are at the bottom of the modal.

Registration panel for a new module.

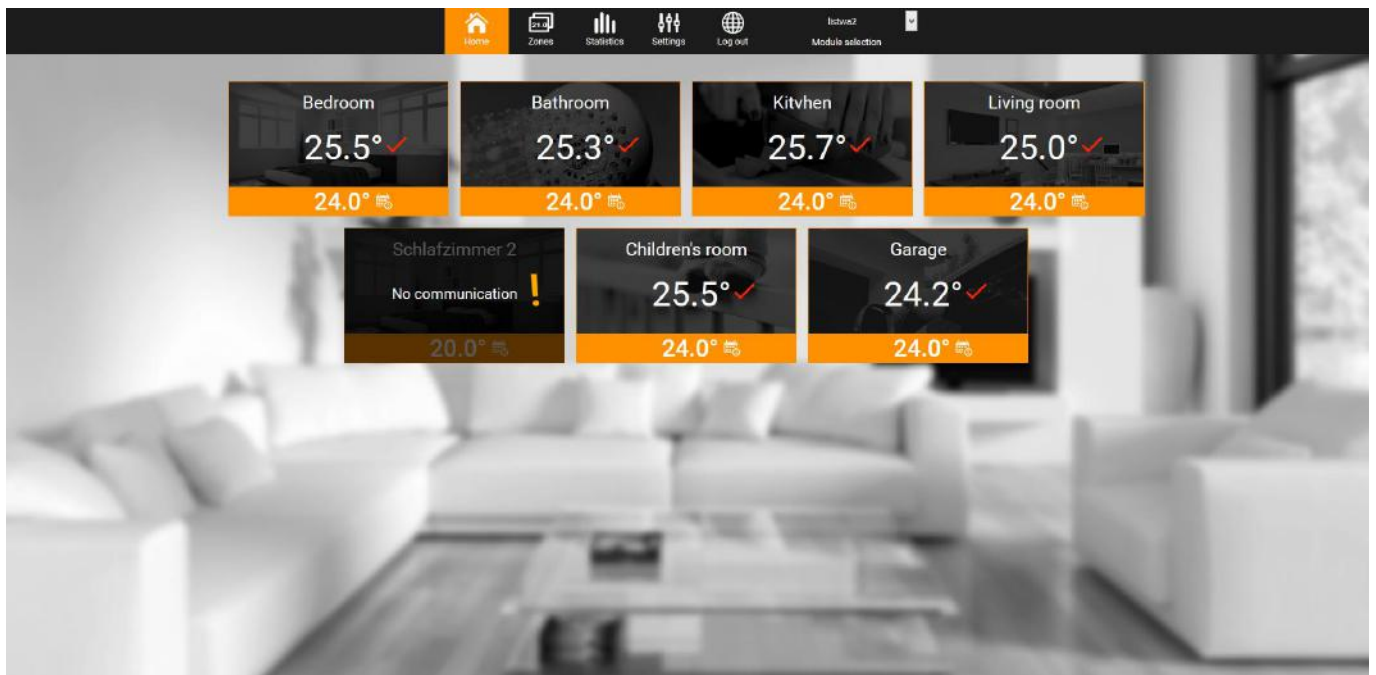


CAUTION

Several different ST-507 modules may be operated from one account at oeg.emodul.eu.

IV.b) Homepage

The homepage is displayed in the tab Home with tiles illustrating the current condition of the zones. Clicking a tile, the user proceeds to the screen where he may select the zone operation mode.

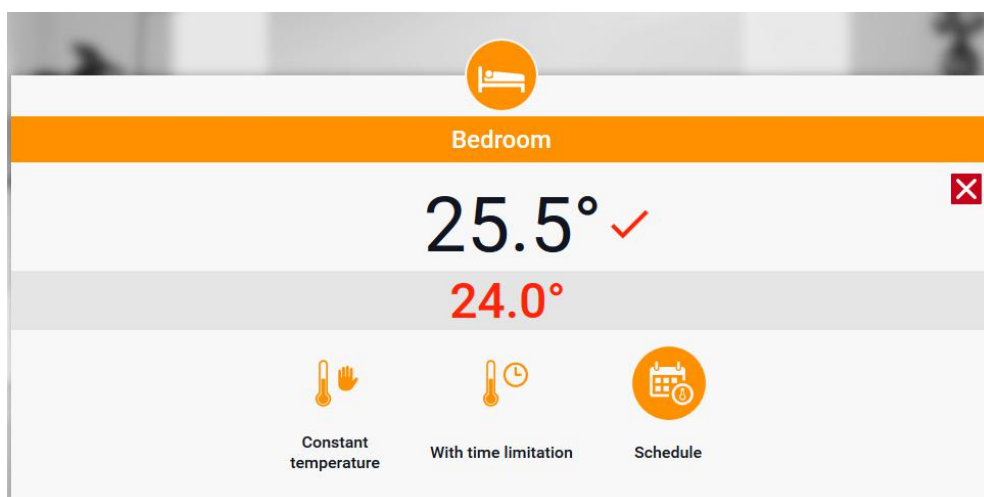


Screenshot showing an example of the main screen with zone tiles.

CAUTION



The message "No Communication" means an interruption in the communication with the temperature sensor in a given zone. The most common reason for such situation is a dead battery – it should be replaced.



Screenshot showing a screen for changing the set temperature as well as editing the schedules.

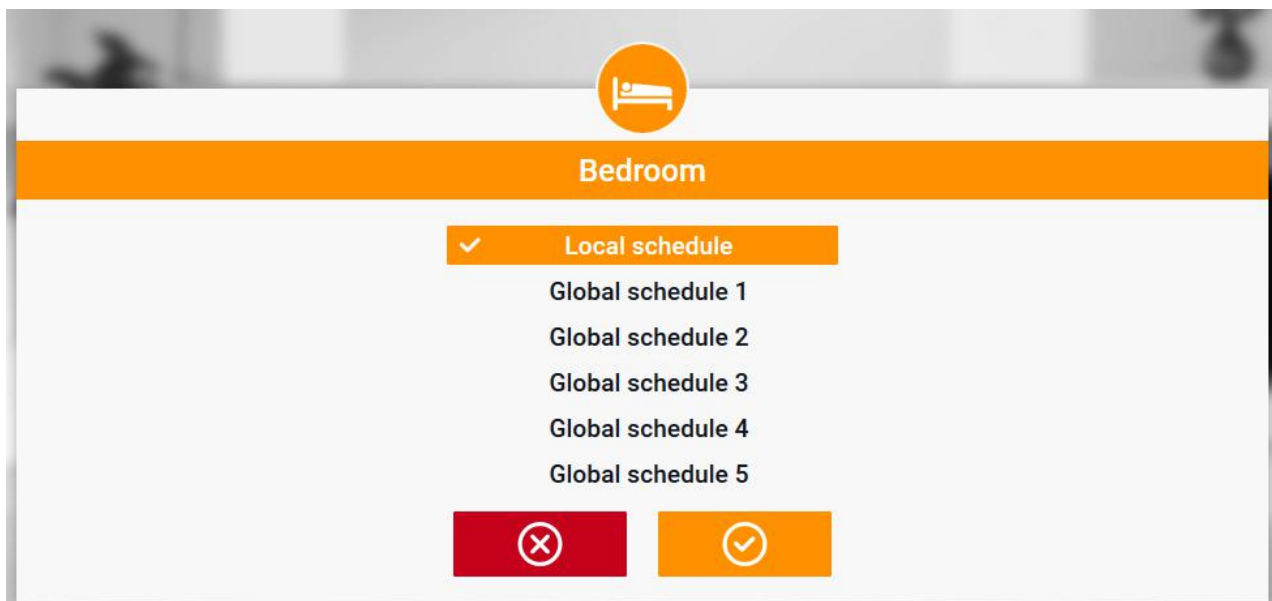
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The upper value means the current temperature in the zone, while the lower value – the set temperature.

The set temperature in a given zone depends by default on the settings of the selected weekly schedule. However, the mode Constant Temperature allows the user to adjust a separate set value which will be valid in a given zone, regardless of the time of the day.

The mode Time Limit allows the user to adjust a given set temperature which will be valid only for a given period of time. After this time, the set temperature in a given zone will again depend only on the weekly schedule.

Clicking the icon Schedule in the field the user proceeds to the screen where he may select the weekly schedule:



Screenshot showing the selection screen for the weekly schedule.

The strip has two types of weekly schedules:

1. Local schedule

This is a weekly schedule assigned only to a given zone. After the strip detects the room sensor, it is automatically assigned as valid in a given zone. The user may freely edit it.

2. Global schedule (Schedule 1..5)

The global schedule may be assigned to any number of zones. Changes introduced in the global schedule are valid in all zones in which a given global schedule is set as valid.

After selecting the schedule and clicking OK, the user proceeds to the screen where he may edit the settings of the weekly schedule:

The screenshot displays the 'Bedroom' schedule editing interface. At the top, there is a bed icon and the title 'Bedroom'. Below this, the 'Local schedule' section is shown. It features a row of days: Mo, Tu, We, Th, Fr, Sa, Su. The 'Set temperature' is set to 25.0°. Below the temperature, there is a table of time intervals with their respective temperatures:

00:00 - 10:00	22.0°	[-]
10:00 - 20:00	23.0°	[-]
20:00 - 23:00	24.0°	[-]

The second section is identical to the first, but the days Mo, Tu, We, Th, and Fr are greyed out, while Sa and Su are highlighted in orange. At the bottom of the screen, there are two buttons: a red button with a white 'X' and an orange button with a white checkmark.

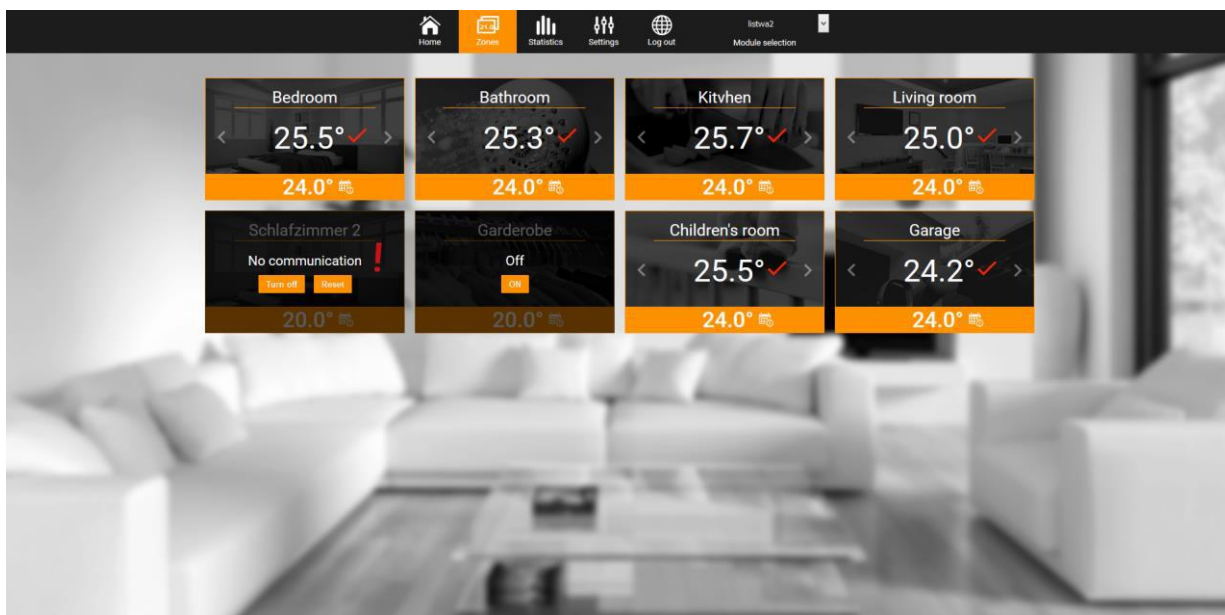
Screenshot showing the screen for editing the settings of the weekly schedule.

Editing each schedule allows the user to define two programs of settings as well as to select days in which these programs will be valid (e.g. Monday to Friday as well as weekends). The starting point for each program is the set temperature. In each of the programs the user may define up to three time intervals in which the temperature will be different than the set value. The boundaries of intervals cannot overlap.

The set temperature will be valid in hours for which the intervals were not defined. The time intervals may be adjusted with accuracy to 15 minutes.

IV.c) Changing the settings of zone view

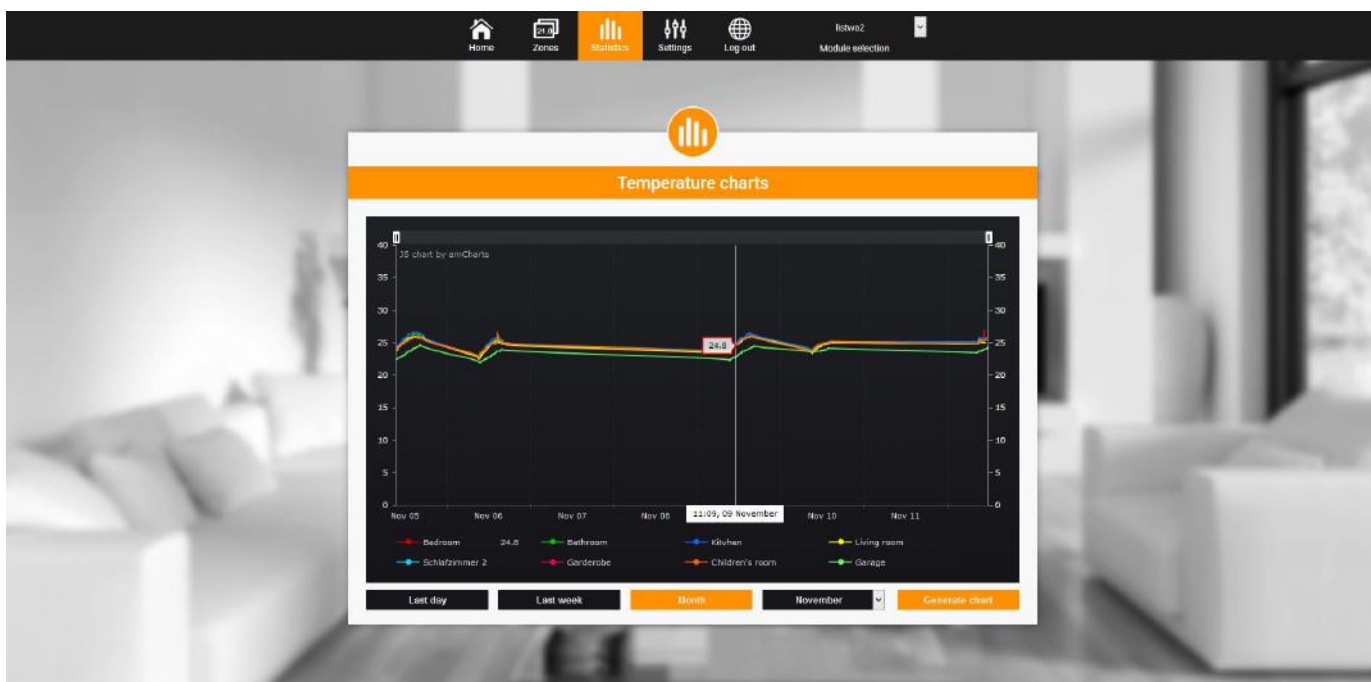
The user may adjust the appearance of the homepage to his needs, changing the names of zones as well as the background of particular tiles. These changes may be introduced in the tab Zones.



Screenshot showing an example of the tab containing the parameters of particular zones.

IV.d) Statistics

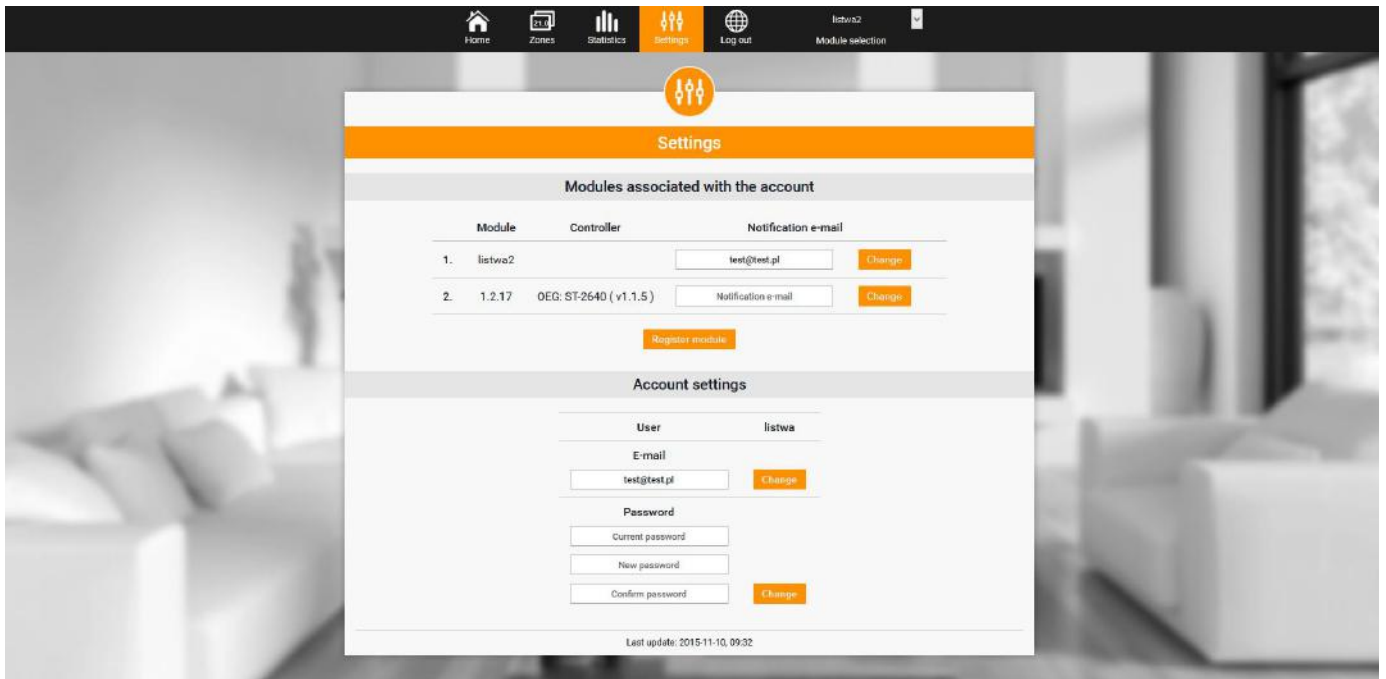
In the tab Statistics the user may monitor the charts of temperatures from different scopes of time: a day, a week or a month, as well as statistics from previous months:



Screenshot showing an example of a temperature chart.

IV.e) Settings

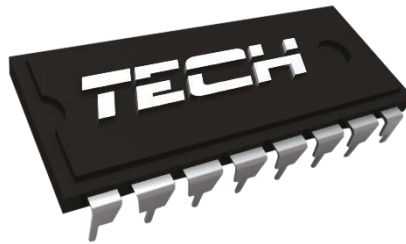
The tab Settings allows the user to register a new module, change the e-mail address as well as change the account's password:



Screenshot showing the tab Settings.

V. TECHNICAL DATA

No.	Specification	
1	Power supply voltage	5V DC
2	Maximum current intake	200 mA
3	Transmission	IEEE 802.3 10 Mb/s
4	Connection with the network	RJ 45 connection
5	Connection with the controller	RJ12 connection



Declaration of conformity No 188/2015

The company TECH, based in Wieprz (34-122) at ul. Biała Droga 31, declares with complete liability that our Internet module ST-507 meets the requirements of the following EC directives:

- R&TTE Directive 1999/5/EC;
- Low Voltage Directive (LVD) 2006/95/EC;
- EMC Directive 2004/108/EC.

Harmonized standards were used to assess the conformity:

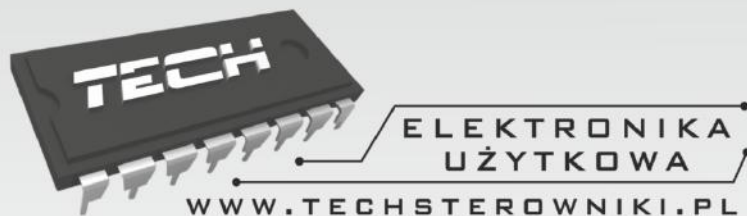
- **PN -EN 60950-1-:2007;**
- **PN-EN 55022:2011;**
- **PN-EN 55024:2011.**


PAWEŁ JURA


JANUSZ MASTER

WŁAŚCICIELE TECH SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ SP. K.

Wieprz, October 26, 2015



TECH STEROWNIKI

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