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INTRODUCTION

PURPOSE

Smart Heater System is designed to control the user's existing electrical heating equipment in accordance with the user's current location, directly from the mobile device.

The purpose of this document is to familiarise the user with an electric heater system, its functioning, methods of use and capabilities.

KEY FUNCTIONS OF THE SYSTEM

The user using the mobile app of the electric heater can:

- Adjust heating directly;
- Maintain heating according to the schedule of the weekly heating program;
- At the push of a button, to stop operation of the set heating parameters by switching on Away mode;
- Create the zone(s) corresponding to the user's location;
- Set the desired temperature to be maintained for each zone individually;
- Create new weekly heating programs or edit the existing ones;
- Create new heating modes or edit the existing ones.

Note: All buttons in the Smart Heater System with the functionality to turn a function on/off show the status of a function, i.e., if the status is active (ON), the buttons are dark blue with information indicating the status of a function (e.g.

Away mode is on

), and if the function is disabled (inactive status), the button is grey with information provided next to it (e.g.,

Away mode button:  Away mode is off).

TERMS AND ABBREVIATIONS

Table 1. Terms and Abbreviations

Term	Description
Electric heating device	A heating device that emits heat into the environment. A heater.
Zone	Home or office can be a zone. Also, rooms at home (e.g., a living room, bedroom...).

Term	Description
Heating mode	Supported zone temperature form (e.g., comfort, reduced temperature...), which consists of the colour indication describing a heater mode. The heating mode does not have a temperature. The heating mode temperature is set separately for each zone in the settings window of each zone. Programmatically created heating modes: 1. Comfort – programmatically set heating temperature is +20 °C. You can change the numerical value of the temperature and the assigned colour; 2. Reduced – programmatically set heating temperature is +15 °C. You can change the numerical value of the temperature and the assigned colour; 3. Antifrost – programmatically set heating temperature is +7 °C. You can change the numerical value of the temperature and the assigned colour; 4. Off – standby mode is maintained. Heating is turned off. The assigned colour can be changed. No numeric values of the temperature can be set. Programmatically created heating modes cannot be removed (deleted) from the system.
Away mode	The function, which suspends temporarily all set heating parameters, adjustable by turning it (Away mode) on or off.

Term	Description
Weekly heating program	A pre-set weekly heating schedule, which consists of heating modes selected according to the user's needs or programmatically set, with numeric temperature values of heating mode specific to each zone. Programmatically created weekly heating programs: 1. "Home". The acronym "HO". 2. "Office". The acronym "OF". 3. "Anti-freeze". The acronym "AF". 4. "OFF". The acronym "--". You can change the content of a weekly heating program, its long and short names, to erase a weekly heating program.
Wi-Fi	A wireless technology, allowing the realization of data transmission networks using broadband radio communications.
SSID	Service set identifier. Network name.

TROUBLESHOOTING

Table 2. Troubleshooting

Problem	Description
The measured zone temperature is not displayed in Home (zone preview) window.	No heating devices have been assigned to this zone.

Problem	Description
Impossible to delete from the zone list, the zone you want to remove.	You have not marked the zone you want to remove in the window of zone list.
Impossible to go from the window of zone list to the window of zone editing.	You have not marked the zone you want to edit in the window of zone list.
Temperature is not displayed in the window of zone list next to the zone.	No heating devices have been assigned to this zone.
Registration of purchased electric heating device is unsuccessful.	See the section “How to successfully register the existing heater”.

I. iOS

LOGIN

The First Time You Login to Smart Heater System

If you have not logged in or are disconnected from the Smart Heater system, click on the Adax icon  in the mobile device applications window, and the login screen will be displayed.

The user has the possibility to login with his social network accounts (social network icons are displayed in the login screen, and to log in with one of them, you simply press the selected icon), or press the field “Sign Up”, and sign up by filling in the opened window such fields as the e-mail address and password.

If you have forgotten the login password, press on the field “Lost password?” And the following steps will give full information on how to restore the login data.

To use the system without logging in, select the field “Direct Mode”. Working in this mode, you can have one zone, into which you will include one available electric heating device. This mode is convenient for use of an electric heater, where it is not possible to connect to the home network (Wi-Fi).

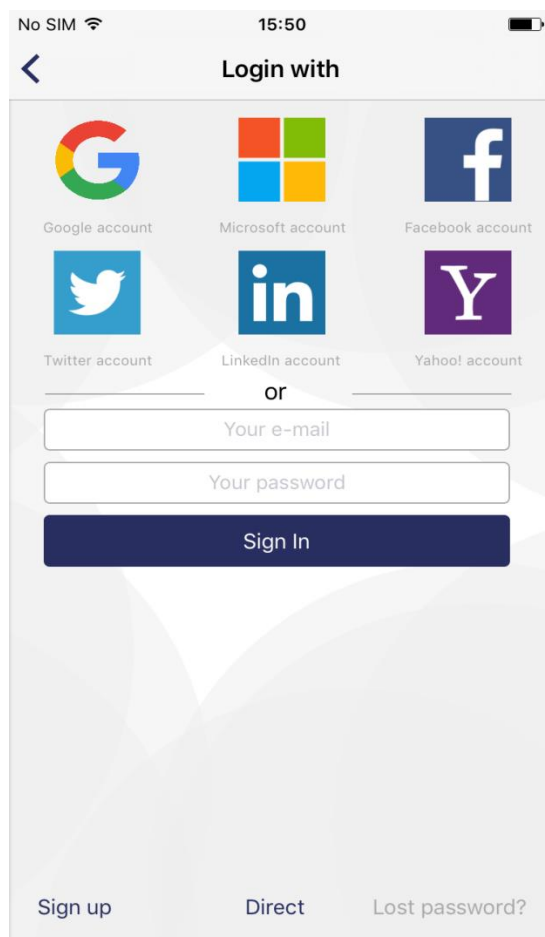


Figure 1. Login screen

Sign-out

If you need to sign out, perform the following actions:

- Press  in the home (zone preview) window.
- Select  (Account) in the opened menu window.
- Press  in the opened user account window.

When connecting to the Smart Heater next time, the login screen will be displayed, where the user shall re-enter all login information, or log in using one of the provided social networks.

Key Functions

Home (Zone Preview) Window

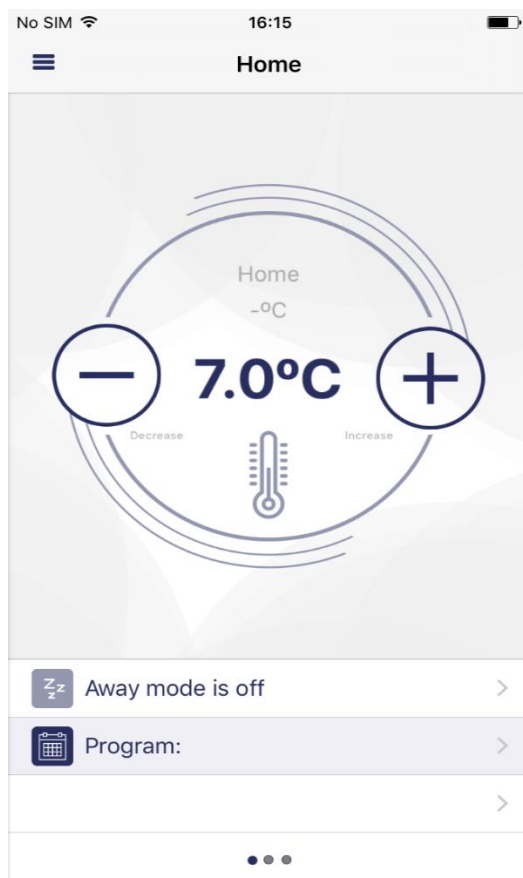


Figure 2. Home (zone preview) window

Once you have logged in, this Home window will be displayed, which also is the zone preview window. Upon the first login, one programmatically created zone will be presented. If you create more zones, you will be able to see all of them, with their custom settings, sliding from one zone window to another (in this window, created zones “Living Room”, “Kitchen”, “Bedroom” are visible).

The functions available in the zone preview window:

- Transition from one zone to another (if more than one zone has been created);
- Increasing/decreasing the set temperature using the buttons  and ;
- Activating Away mode by pressing the icon  (currently this icon is inactive, indicating that Away mode is off);
- Setting the weekly heating program by pressing the icon ;
- Pressing the icon  opens the zone settings window.

Menu

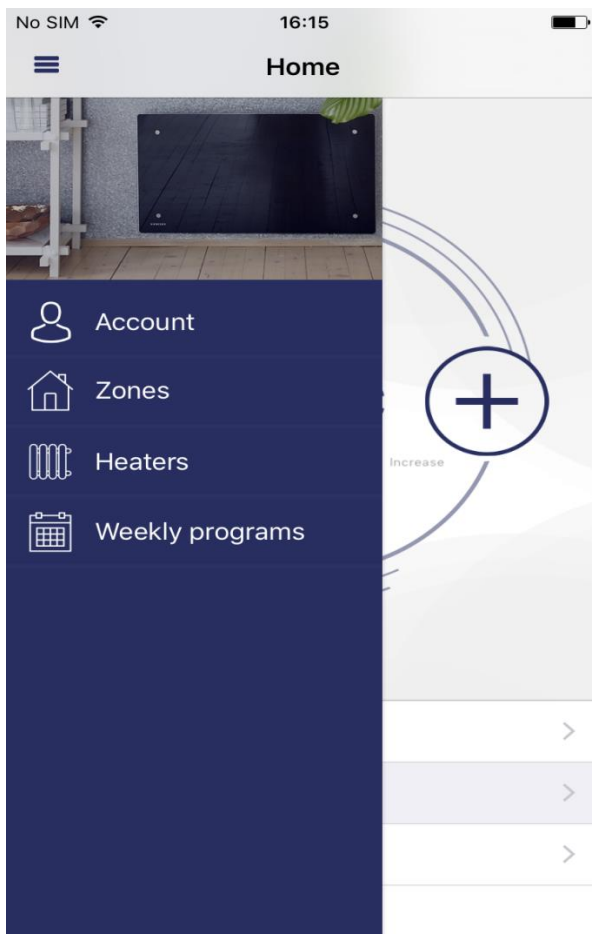


Figure 3. Menu window

This window is accessed by pressing the icon  in the home (zone preview) window. All main functions of the system are accessible from this window:

- “Account” – data of a logged in user;
- “Zones” – list of the zones created by the user;
- “Heaters” – list of the user’s heaters included in the system;
- “Weekly program” – list of weekly heating programs.

Zone

Creating a Zone

A new zone is created in the following steps:  →  → .

The newly created zone will include these programmable settings:

- Zone name “New zone”;
- Programmatically set zone temperature (+20 °C) is shown;
- In the settings window of created zone, the list of all heating modes is presented, with the temperature, which was set recently in any zone.
- Away mode is disabled;
- Heating mode of Away mode is “Reduced”;
- Direct heating of the zone is maintained, i.e., no weekly heating program has been set.

Zone Editing

The screenshot shows a mobile app interface for 'Zone settings'. At the top, the status bar shows 'No SIM', signal strength, time '16:16', and battery level. The app header has a back arrow, the title 'Zone settings', and a plus icon. Below the header is a text input field containing 'Home'. The main content area is divided into sections: 'Zone heaters:' with a message 'No heaters are assigned to zone' and a right arrow; 'Zone heating modes:' with a list of four modes: 'Off' (black square), 'Antifrost' (cyan square, 7.0°C), 'Comfort' (magenta square, 20.0°C), and 'Reduced' (blue square, 15.0°C). Each mode has a minus and plus button for temperature adjustment. The 'Reduced' mode is highlighted with a blue background. Below this is the 'Zone parameters:' section, which includes 'Away mode:' set to 'Reduced' with a right arrow. The bottom of the screen shows three empty rows.

No SIM 16:16

< Zone settings +

Home

Zone heaters:

No heaters are assigned to zone >

Zone heating modes:

Off	Off	— +
Antifrost	7.0°C	— +
Comfort	20.0°C	— +
Reduced	15.0°C	— +

Zone parameters:

Away mode: Reduced >

Figure 4. Window of zone settings

In the window of zone settings, the list of heaters included into that zone is provided (there is one electric heating device in the zone of a sample window). The set heating temperature is provided next to each heater. In the window for setting of each zone, all created heating modes can be reviewed and the temperatures maintained by heating modes characteristic only to this zone can be set for these heating modes. In this window, also the mode is set, according to the numerical value of whose set temperature heating of that zone will be maintained, when you enable Away mode in home (zone preview) window.

In the provided window, editing of set zone parameters is carried out:

- If needed, the zone name can be changed (if the field of the zone name is left empty by mistake, the system restores a previous name of the zone);
- When the icon  at the bottom of the window is pressed, the list of heaters available in the system is displayed, and if any heater from the heaters list is marked, it will be included into this zone;
- To delete the heater included in the zone, mark the electric heating device you want to remove and press ;

Set the temperature for the heating modes in the list using the buttons ;

- Set the Away heating mode by pressing the button  (the list of created heating modes is displayed, and from it you can select the heating mode for setting the Away mode).

Deleting a Created Zone

To delete the created zone from the list of available zones, the following actions shall be performed:

1. Press the icon  in the home window;
2. Press the icon  (Zones) in the menu window;
3. In the window of zones list, mark the zone you want to delete and press the icon .

Heating Mode

Creating a Heating Mode

To create a new heating mode, the following actions shall be performed:

1. In the home window, press the icon ;
2. In the opened menu window, press  ("Weekly programs");
3. In the opened window of the list of weekly heating programs, select one of the weekly heating programs from the list;
4. Press  in the opened preview window of the weekly heating program;
5. Press the icon  ("Heating modes") in the opened editing (heating period creation) window of the weekly heating program.

The name “New heating mode” is automatically given to the newly created heating mode, which may be changed (renamed) in the same window, a desired numerical temperature value may be set and a colour indication may be assigned. As per colour assigned to the heating mode, in the window of the weekly heating program schedule you will see the time, at which the relevant heating mode will take place.

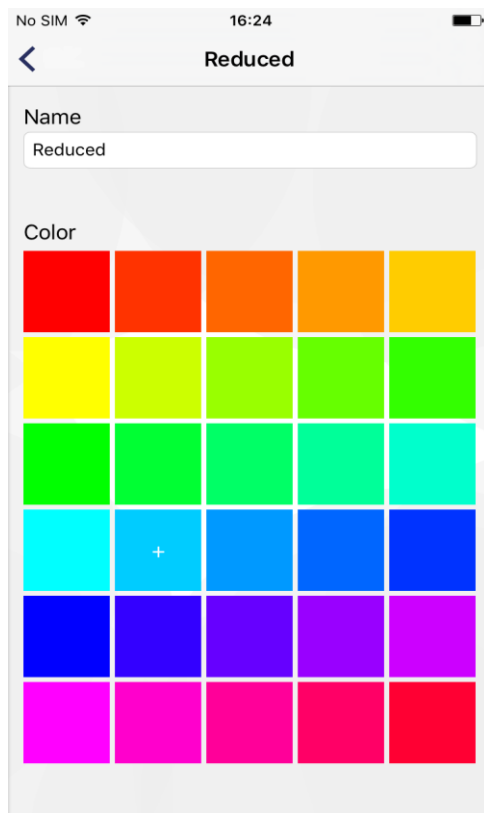


Figure 5. Window of heating mode creation

Editing a Heating Mode

The colour icon assigned to the heating mode is changed in the following steps:  →  → select one of the provided weekly heating programs → select the heating mode you want to edit.

Note: start performing the provided list of actions from the home (zone preview) window. While these functions are performed, do not edit the numerical value of the heating mode temperature, as this function is performed individually for each zone. I.e., the same weekly heating program can be set for all zones, but operating according to the same schedule of heating modes, it can maintain different numerical values of the temperature of the same heating mode.

No heating temperature can be set for the programmatically created heating mode "OFF".

Deleting a Heating Mode

To delete a heating mode, the following actions shall be performed:  →  → select one of the provided weekly heating programs → mark the heating mode you want to delete and press .

Note: start performing the provided list of actions from the home (zone preview) window. The programmatically created heating modes and those heating modes, which are used in one of the weekly heating programs in the system cannot be deleted.

Weekly Heating Program

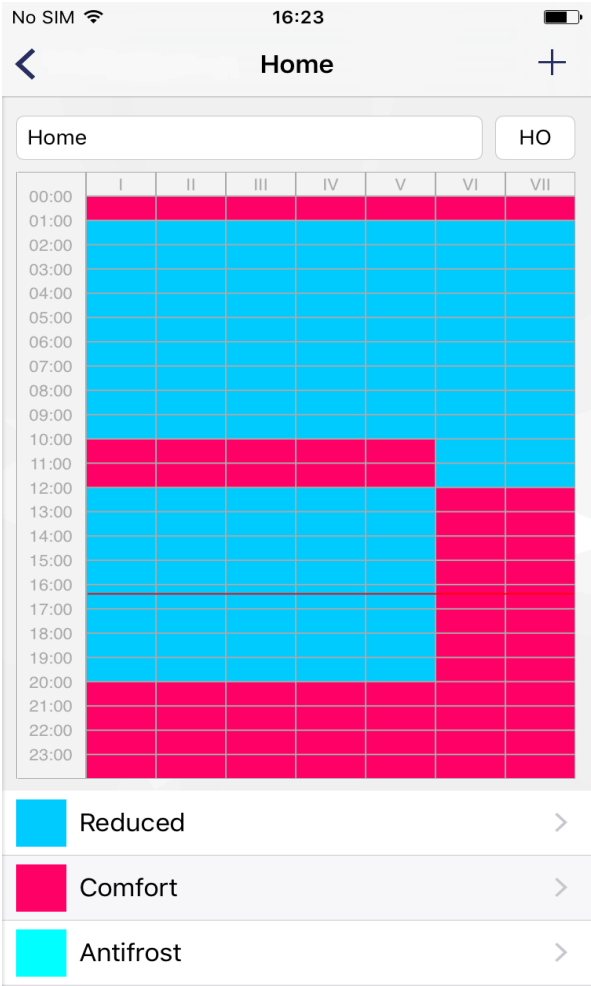


Figure 6. Weekly heating schedule preview window

A detailed heating schedule is provided in the preview window of the weekly heating program, where you can see the weekdays, the intervals and the heating mode, per numerical value of the set temperature of which (this is shown by the colour indication of a heating mode) heating will be maintained.

In this window the name of a weekly heating program, the short name of the weekly heating program assigned automatically by the system ("HO" in this window), which will be seen on the screen of an electric heating device, can be changed to set the weekly heating program (read more about that in the operating manual of a purchased heater), by pressing, and, if needed, delete the selected heating mode.

Note: only such programmatically created heating modes as "Comfort", "Reduced", "Antifrost" and "OFF" cannot be deleted.

Creating a Weekly Heating Program

To create a new weekly heating program, the following actions shall be performed:  →  → .

In the newly created weekly heating program the following heating parameters will be programmatically set:

- The name "New week program", which can be changed in the preview window of the weekly program schedule;
- Short name. The short name for each next newly created weekly heating program will be "P(n+1)", where n – the number of the last created weekly heating program.
- Programmatically set schedule;
- List of heating modes.

Note: start performing the provided list of actions from the home (zone preview) window.

Editing a Weekly Heating Program

Editing of a weekly heating program is possible upon performance of the following actions:

1. Press  in the home (zone preview) window;
2. Press  in the menu window;
3. In the window of the list of weekly heating programs, mark the weekly heating program you wish to edit, and press ;
4. Press  in the preview window of the schedule of the weekly heating program.

Editing of a weekly heating program is performed by creating one by one a new period, to which one of the heating modes from the list is assigned.

To create a heating period:

- Mark one or several days of the week. In the provided window, days of the week have been marked



Monday,  Tuesday, etc. If you wish to assign all week days to the created heating period, mark

, if you wish to assign only

weekends, mark . If you want to assign

the whole week, mark both

Week days

and Week-ends;

- Select the time, from and to which hour the created heating period shall continue (see the fields “From” and “To”);
- Mark the heating mode, per numerical value of the set temperature of which the heating will be maintained at the time selected in the previous steps. If the required heating mode is not in the list, you can create a new one by pressing the button ;
- Upon completion of all steps, press  to save the created period.

Note: to create a heating period, all listed actions shall be performed, otherwise the system will not allow to save the created period. The created heating period of the edited weekly heating program will always write “on the top”, you do not have to remember, what heating periods were created earlier in the edited schedule.

Figure 7. The window for creating a heating period used in the weekly heating program

Deleting a Weekly Heating Program

A weekly heating program is deleted by marking in the window of the list of weekly heating programs the weekly heating program you wish to delete and pressing .

Control of Electric Heating Devices

Adding an Electric Heating Device to the Zone

An electric heating device is added to the zone by pressing the button  in the setting window of the zone. The list of heaters included in the system is displayed, and by pressing on the name of desired heater, the heater is added to the selected zone.

Editing an Electric Heating Device

Editing of electric heating devices included in the system is possible by selecting in the window of the list of heaters the heater you wish to edit. The below heater setting window is displayed.

The user has the possibility to change the following settings of a heater:

- The name of electric heating device, by entering a new heater name in the field "Heater name";
- To update firmware by pressing the button



Note: when you have updated Smart Heater system, you can use new and improved functions of your heater. Furthermore, after updating of firmware, the system can start working better.

Non-editable settings of a heater:

- Provided numerical value of the heater's temperature;
- Current version of firmware;
- The latest version of firmware.

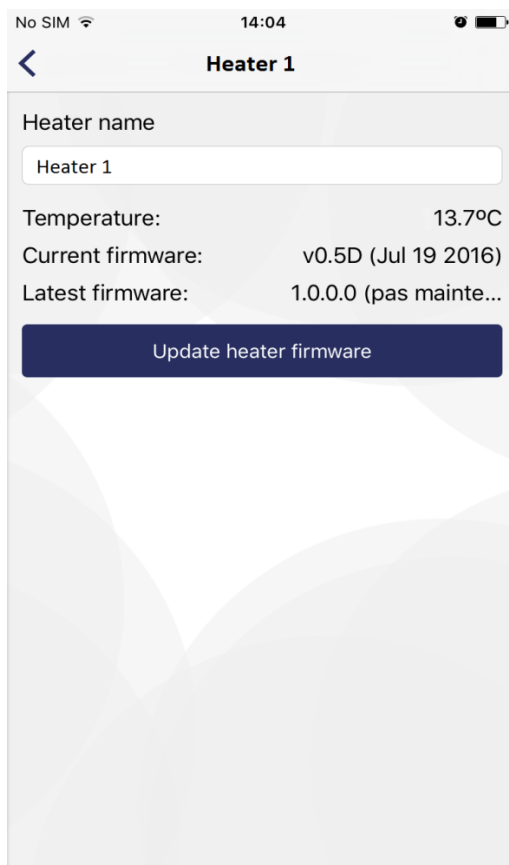


Figure 8. Heater setting window

Deleting an Electric Heating Device from the System

To delete an electric heating device from the Smart Heater app, perform the following actions (the sequence of actions is provided for the user in the home (zone preview) window):

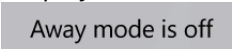
- Press  in the home (zone preview) window;
- Select  ("Heaters") in the displayed menu window;
- Select in the displayed window of the list of heaters included in the Smart Heater system the electric heating device you wish to delete from the system and press .

Away Mode

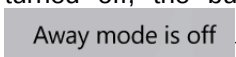
This is the mode, which stops at a set time all heating parameters configured in the Smart Heater app. This includes manually configured heating temperature, heating mode or ongoing weekly heating program.

Turning Away Mode On

To turn Away mode on, perform the following actions:

- Press  **Away mode is off** in the home (zone preview) window (this button shows the status of Away mode) (in this window, Away mode is off);
- In the displayed window of Away mode, press the button .

The final operation of Away mode is set in two ways:

- If the user knows a definite time, when Away mode shall turn off, then pressing the button  ("Keep away until stopped") displays the next window, where the year, month, day, hour and minutes, when Away function shall end, can be set in detail;
- If the user does not know a definite time, when Away mode shall end, he shall leave the button () in the status ON, and this mode will turn off, when the user turns off Away mode by pressing the button  (when Away mode is turned off, the button of OFF status is displayed ).

Note: when Away mode stops operating, all heating parameters of the zones previously set will be restored to the parameters, according to which the heater maintained the heating before the Away mode was turned on.

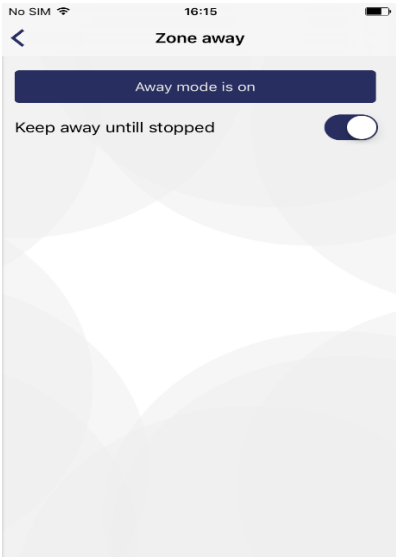


Figure 9. Window 1 of Away mode

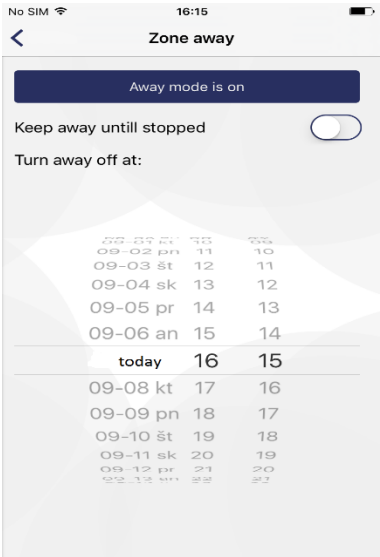


Figure 10. Window 2 of Away mode

Turning Away Mode Off

To turn Away mode off, perform the following actions:

- Press  **Away mode is on** in the home window;
- Press  in the displayed window of Away mode (when Away mode is turned off in this

window, the button of an opposite status is displayed, showing that Away mode is off ("Away mode is off").

Note: when Away mode is turned on, and a specific time is set, when Away mode should end, this function turns off automatically at the set time, and further the electric heating device maintains the heating according to the previously set weekly heating program, the heating mode of which corresponds to the heating mode temperature set according to the time interval.

Linking an Electric Heating Device with the Smart Heater App

To control a purchased electric heating device using the Smart Heater app (on the computer or other device that supports Windows operating environment), the electric heating device shall be linked with the Smart Heater app.

Note: the list of all electric heating devices included in the system can be reviewed in the window of electric heating devices, which is accessible:

- By pressing  in the home (zone preview) window;
- By selecting  in the menu window.

How to Successfully Register the Existing Heater

1. In the registration window of the heater, correctly fill in SSID (home network name) and Password fields. It is recommended to leave the button of the field "Wi-Fi is hidden" turned off ( OFF status);

2. Press the button ;
3. On the screen of the heater you wish to include in the system, press and hold the buttons “+” and “-” together, until the symbol SC (Smart Configuration) is displayed on the screen;
4. In the SmartHeater app, press on the found heater’s name in the search window of the heater (“Searching”), in the field “Heaters”;
5. Check, whether a red light is blinking on the screen of the heater you wish to link with the SmartHeater app;
6. Write the desired heater’s name in the SmartHeater app, in the search window of the heater, the field “Heater name”;
7. Press the button “Save” at the top of the window.

Note: It is recommended to perform the function of linking the existing heater with SmartHeater app separately for each existing heater.

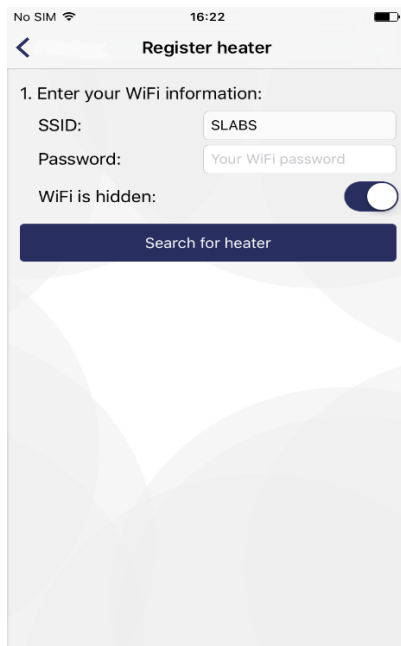


Figure 11. Wi-Fi connecting window

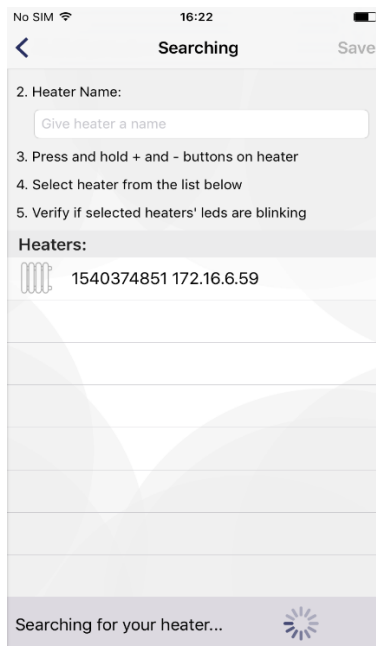


Figure 12. Heater registration window

Supported Wi-Fi connection types:

1. WPA2 Personal;
2. WPA/WPA2 Personal Mixed.

Smart Heater application:



II. Android

Login

The First Time You Login to Smart Heater System

If you have not logged in or are disconnected from the Smart Heater system, click on the Adax icon  in the mobile device applications window, and the login screen will be displayed.

The user has the possibility to login with his social network accounts (social network icons are displayed in the login screen, and to log in with one of them, you simply press on the selected icon), or press on the field “Sign Up”, and sign up by filling in the opened window such fields as the e-mail address and password.

If you have forgotten the login password, press on the field “Lost password?” And the following steps will give full information on how to restore the login data.

To use the system without logging in, select the field “Direct Mode”. Working in this mode, you can have one zone, into which you will include one available electric heating device. This mode is convenient for use of an electric heater, where it is not possible to connect to the home network (Wi-Fi).

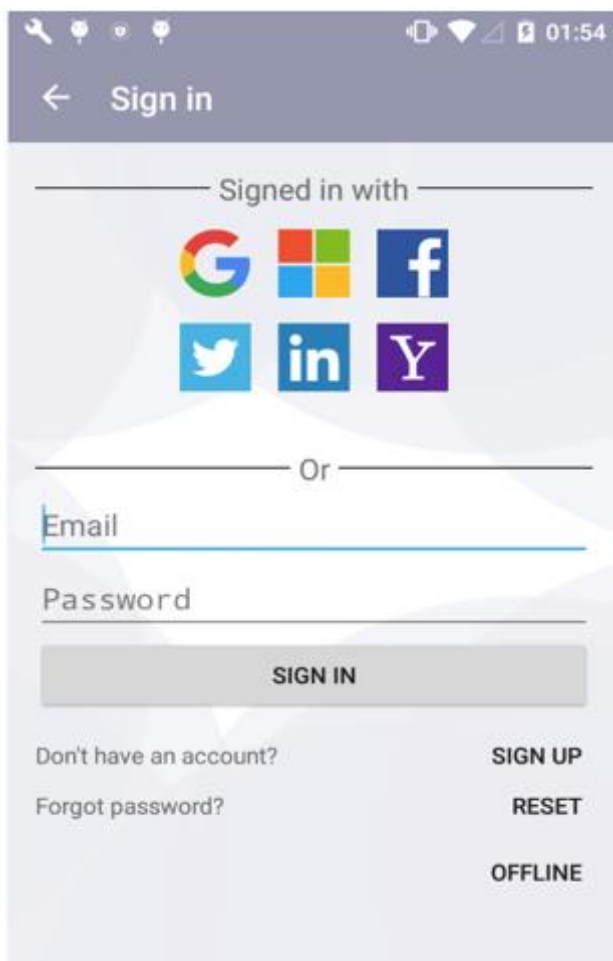


Figure 13. Login screen

Sign-out

If you need to sign out, perform the following actions:

- Press  in the home (zone preview) window;
- Select  (Account) in the opened menu window;
- Press  in the opened user account window.

When connecting to the Smart Heater next time, the login screen will be displayed, where the user shall re-enter all login information, or log in using one of the provided social networks.

Key Functions

Home (Zone Preview) Window



Figure 14. Home (zone preview) window

Once you have logged in, this Home window will be displayed, which also is the zone preview window. Upon the first login, one programmatically created zone will be presented. If you create more zones, you will be able to see all of them, with their custom settings, sliding from one zone window to another (in this window, created zones “Living Room”, “Kitchen”, “Bedroom” are visible).

The functions available in the zone preview window:

- Transition from one zone to another (if more than one zone has been created);
- Increasing/decreasing the set temperature using the buttons  and  ;
- Activating Away mode by pressing the icon  (currently this icon is inactive, indicating that Away mode is off);
- Setting the weekly heating program by pressing the icon  ;
- Pressing the icon  opens the zone settings window.

Menu

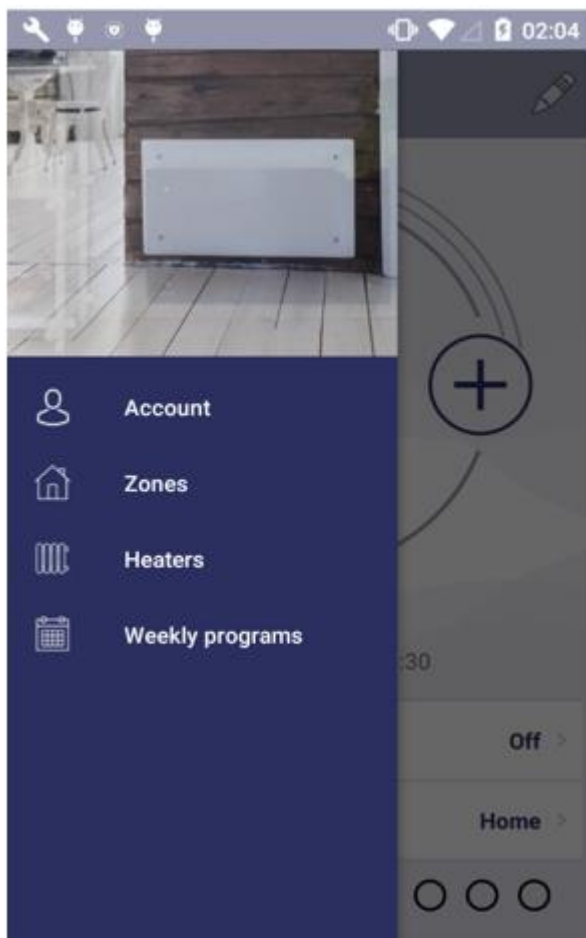


Figure 15. Menu window

This window is accessed by pressing the icon  in the home (zone preview) window. All main functions of the system are accessible from this window:

- “Account” – data of a logged in user;
- “Zones” – list of the zones created by the user;
- “Heaters” – list of the user’s heaters included in the system;
- “Weekly program” – list of weekly heating programs.

Zone

Creating a Zone

A new zone is created in the following steps:  →  → .

The newly created zone will include these programmable settings:

- Zone name “New zone”;
- Programmatically set zone temperature (+20 °C) is shown;
- In the settings window of created zone, the list of all heating modes is presented, with the temperature, which was set recently in any zone.
- Away mode is disabled;
- Heating mode of Away mode is “Reduced”;
- Direct heating of the zone is maintained, i.e., no weekly heating program has been set.

Zone Editing

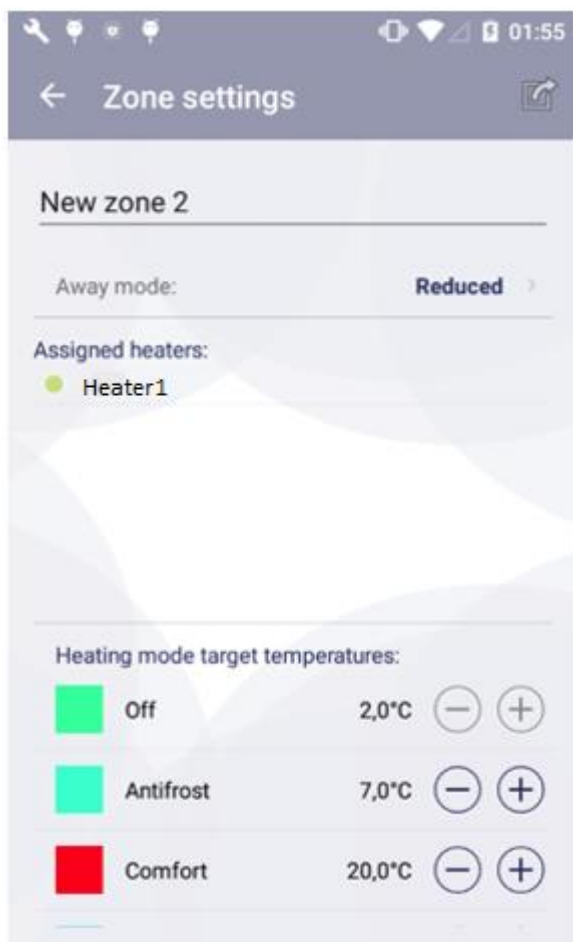


Figure 16. Window of zone settings

In the window of zone settings, the list of heaters included into that zone is provided (there is one electric heating device in the zone of a sample window). The set heating temperature is provided next to each heater. In the window for setting of each zone, all created heating modes can be reviewed and the temperatures maintained by heating modes characteristic only to this zone can be set for these heating modes. In this window, also the mode is set, according to the numerical value of whose set temperature heating of that zone will be maintained, when you enable Away mode in the home (zone preview) window.

In the provided window, editing of set zone parameters is carried out:

- If needed, the zone name can be changed (if the field of the zone name is left empty by mistake, the system restores a previous name of the zone);
- When the icon  at the bottom of the window is pressed, the list of heaters available in the system is displayed, and if any heater from the heaters list is marked, it will be included into this zone;
- To delete the heater included in the zone, mark the electric heating device you want to remove and press  ;
- Set the temperature for the heating modes in the list using the buttons  and  ;
- Set the Away heating mode by pressing the button **Reduced**  (the list of created heating modes is displayed, and from it you can select the heating mode for setting the Away mode).

Deleting a Created Zone

To delete the created zone from the list of available zones, the following actions shall be performed:

1. Press the icon  in the home window;
2. Press the icon  (Zones) in the menu window;
3. In the window of zones list, mark the zone you want to delete and press the icon .

Heating Mode

Creating a Heating Mode

To create a new heating mode, the following actions shall be performed:

1. In the home window, press the icon ;
2. In the opened menu window, press  ("Weekly programs");
3. In the opened window of the list of weekly heating programs, select one of the weekly heating programs from the list and press the icon ;
4. Press  in the opened preview window of the weekly heating program.

The name "New mode 1" is automatically given to the newly created heating mode, which may be changed (renamed) in the

same window, and a colour indication may be assigned. As per colour assigned to the heating mode, in the window of the weekly heating program schedule you will see the time, at which the relevant heating mode will take place.

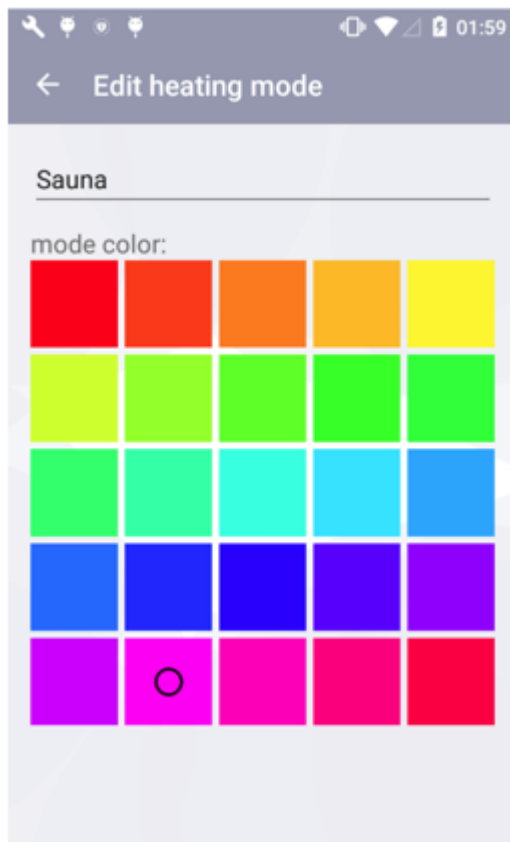


Figure 17. Window of heating mode creation

Editing a Heating Mode

The colour icon assigned to the heating mode is changed in the following steps:  →  → mark one of the provided weekly heating programs and press  → mark the heating mode you want to edit and press .

Note: start performing the provided list of actions from the home (zone preview) window. While these functions are performed, do not edit the numerical value of the heating mode temperature, as this function is performed individually for each zone. I.e., the same weekly heating program can be set for all zones, but operating according to the same schedule of heating modes, it can maintain different numerical values of the temperature of the same heating mode.

No heating temperature can be set for the programmatically created heating mode "OFF".

Deleting a Heating Mode

To delete a heating mode, the following actions shall be performed:  →  → mark one of the provided weekly heating programs and press  → mark the heating mode you want to delete and press .

Note: start performing the provided list of actions from the home (zone preview) window. The programmatically created heating modes and those heating modes, which are used in one of the weekly heating programs in the system cannot be deleted.

Weekly Heating Program

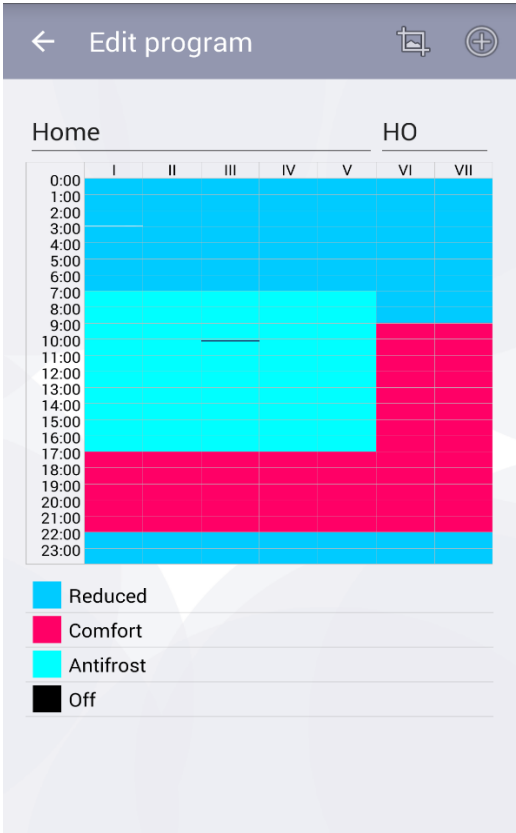


Figure 18. Weekly heating schedule preview window

A detailed heating schedule is provided in the preview window of the weekly heating program, where you can see the weekdays, the intervals and the heating mode, per numerical value of the set

temperature of which (this is shown by the colour indication of a heating mode) heating will be maintained.

In this window the name of a weekly heating program, the short name of the weekly heating program assigned automatically by the system ("HO" in this window), which will be seen on the screen of an electric heating device, can be changed to set the weekly heating program (read more about that in the operating manual of a purchased heater), by pressing, and, if needed, delete the selected heating mode.

Note: only such programmatically created heating modes as "Comfort", "Reduced", "Antifrost" and "OFF" cannot be deleted.

Creating a Weekly Heating Program

To create a new weekly heating program, the following actions shall be performed:  →  → .

In the newly created weekly heating program the following heating parameters will be programmatically set:

- The name "New week program", which can be changed in the preview window of the weekly program schedule;
- Short name. The short name for each next newly created weekly heating program will be "P(n+1)", where n – the number of the last created weekly heating program.
- Programmatically set schedule;
- List of heating modes.

Note: start performing the provided list of actions from the home (zone preview) window.

Editing a Weekly Heating Program

Editing of a weekly heating program is possible upon performance of the following actions:

1. Press  in the home (zone preview) window;
2. Press  in the menu window;
3. In the window of the list of weekly heating programs, mark the weekly heating program you wish to edit, and press ;
4. Press  in the preview window of the schedule of the weekly heating program.

Editing of a weekly heating program is performed by creating one by one a new period, to which one of the heating modes from the list is assigned.

To create a heating period:

- Mark one or several days of the week. In the provided window, days of the week have been marked



, where  means

Monday,  Tuesday, etc. If you wish to assign all week days to the created heating period, mark

, if you wish to assign only

weekends, mark . If you want to assign the

whole week, mark both 

and ;

- Select the time, from and to which hour the created heating period shall continue (see the fields “From” and “To”);
- Mark the heating mode, per numerical value of the set temperature of which the heating will be maintained at the time selected in the previous steps. If the required heating mode is not in the list, you can create a new one by pressing the button **NEW MODE**;
- Upon completion of all steps, the created period is saved automatically.

Note: to create a heating period, all listed actions shall be performed, otherwise the system will not allow to save the created period. The created heating period of the edited weekly heating program will always write “on the top”, you do not have to remember, what heating periods were created earlier in the edited schedule.

The screenshot displays the 'Set interval Home' interface. At the top, there's a navigation bar with a back arrow and the title 'Set interval Home'. Below this is a grid of seven buttons labeled I through VII, representing the days of the week. Underneath the grid are two tabs: 'WEEKDAYS' and 'WEEKENDS'. The 'Starts at:' section features a time picker with the value 23:00. The 'Ends at:' section features a time picker with the value 22:58. Below these are additional time pickers showing 00:00 and 23:59. At the bottom, there's a 'Heating mode:' section with a 'NEW MODE' button and a list of modes: Vacation (green), Party (yellow), Sauna (pink), and Work (blue).

Figure 19. The window for creating a heating period used in the weekly heating program

Deleting a Weekly Heating Program

A weekly heating program is deleted by marking in the window of the list of weekly heating programs the weekly heating program

you wish to delete and pressing



Control of Electric Heating Devices

Adding an Electric Heating Device to the Zone

An electric heating device is added to the zone by pressing the



button in the setting window of the zone. The list of heaters included in the system is displayed, and by pressing on the name of desired heater, the heater is added to the selected zone.

Editing an Electric Heating Device

Editing of electric heating devices included in the system is possible by selecting in the window of the list of heaters the heater

you wish to edit and pressing



. The below heater setting window is displayed.

The user has the possibility to change the following settings of a heater:

- The name of electric heating device, by entering a new heater name in the field “Heater name”;
- To update firmware by pressing the button

UPDATE FIRMWARE

Note: when you have updated Smart Heater system, you can use new and improved functions of your heater. Furthermore, after updating of firmware, the system can start working better.

Non-editable settings of a heater:

- Provided numerical value of the heater's temperature;
- Current version of firmware;
- The latest version of firmware.

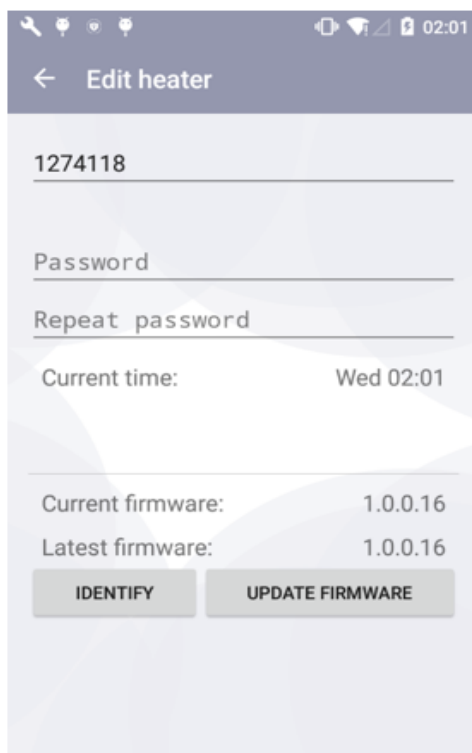


Figure 20. Heater setting window

Deleting an Electric Heating Device from the System

To delete an electric heating device from the Smart Heater app, perform the following actions (the sequence of actions is provided for the user in the home (zone preview) window):

- Press  in the home (zone preview) window;

- Select  ("Heaters") in the displayed menu window;
- Select in the displayed window of the list of heaters included in the Smart Heater system the electric heating device you wish to delete from the system and

press .

Away Mode

This is the mode, which stops at a set time all heating parameters configured in the Smart Heater app. This includes manually configured heating temperature, heating mode or ongoing weekly heating program.

Turning Away Mode On

To turn Away mode on, perform the following actions:

- Press  Away mode is off in the home (zone preview) window (this button shows the status of Away mode) (in this window, Away mode is off);
- In the displayed window of Away mode, press the button .

The final operation of Away mode is set in two ways:

- If the user knows a definite time, when Away mode shall turn off, then he shall turn on the field "Set end date" by pressing the button . A detailed setting of the year, month, day, hour and minutes, when Away mode shall end, is displayed;

- If the user does not know a definite time, when Away mode shall end, he shall leave the “Set end date” field turned off (OFF) and this mode will turn off, when the user turns off Away mode by pressing the button



Note: when Away mode stops operating, all heating parameters of the zones previously set will be restored to the parameters, according to which the heater maintained the heating, before the Away mode was turned on.

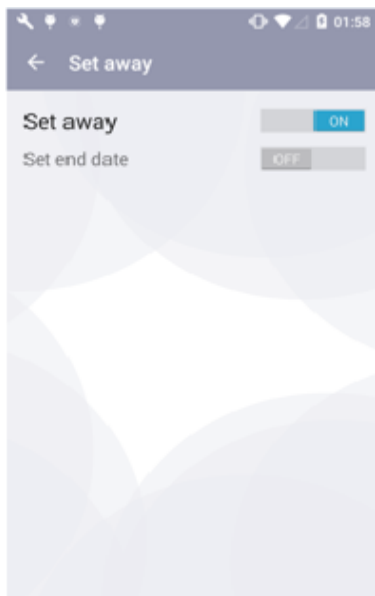


Figure 21. Window 1 of Away mode

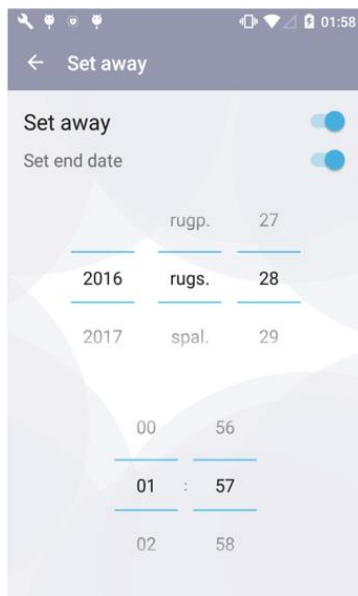


Figure 22. Window 2 of Away mode

Turning Away Mode Off

To turn Away mode off, perform the following actions:

- Press  Away mode is on in the home window;

- Press “Set away” button  **ON** in the displayed window of Away mode.

Note: when Away mode is turned on, and a specific time is set, when Away mode should end, this function turns off automatically at the set time, and further the electric heating device maintains heating according to the previously set weekly heating program, the heating mode of which corresponds to the heating mode temperature set according to the time interval.

Linking an Electric Heating Device with the Smart Heater App

To control a purchased electric heating device using the Smart Heater app (on the computer or other device that supports Windows operating environment), the electric heating device shall be linked with the Smart Heater app.

Note: the list of all electric heating devices included in the system can be reviewed in the window of electric heating devices, which is accessible:

- By pressing  in the home (zone preview) window;
- By selecting  in the menu window.

How to Successfully Register the Existing Heater

1. In Wi-Fi information field, correctly fill in “SSID” (home network name) and “Password” fields. It is

recommended to leave the button of the field “Wi-Fi is hidden” turned off ( OFF status);

2. Press the button  ;
3. On the screen of the heater you wish to include in the system, press and hold the buttons “+” and “-” together, until the symbol SC (Smart Configuration) is displayed on the screen;
4. In the SmartHeater app, in the heater registration window (“Register heater”) the field “Found heaters”, press on the heater found;
5. In the opened confirmation window of the found heater, write the new heater’s name in the field “New Heater1”, and press the button “OK”, upon making sure that a red light is blinking in the heater’s screen, confirming that namely the heater, which we wish, will be included in the system.

Note: It is recommended to perform the function of linking the existing heater with SmartHeater app separately for each existing heater.

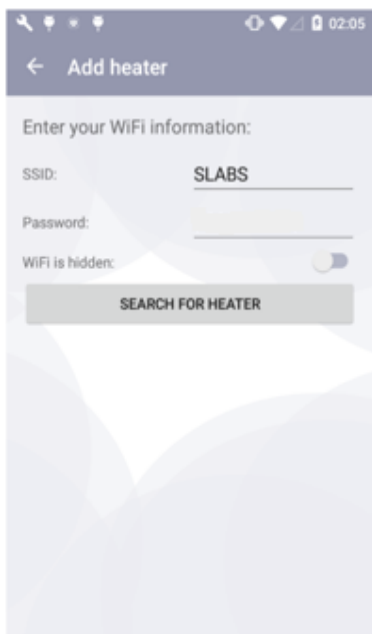


Figure 23. Wi-Fi connecting window

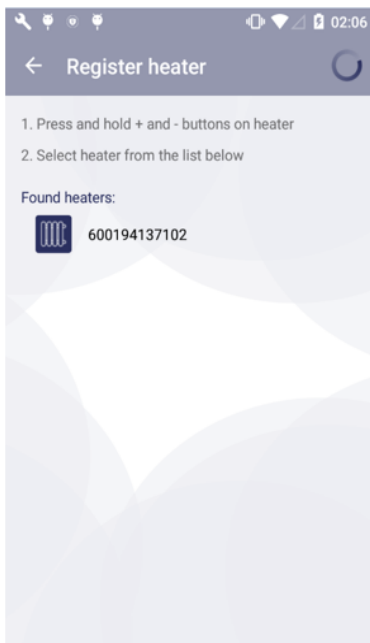


Figure 24. Heater registration window

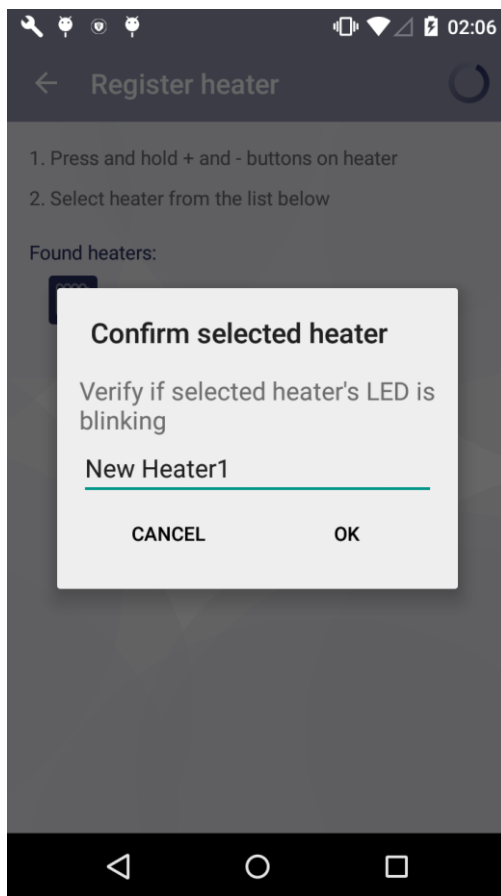


Figure 25. Registered heater's confirmation window

Supported Wi-Fi connection types:

1. WPA2 Personal;
2. WPA/WPA2 Personal Mixed.

Smart Heater application:



III. Windows

Login

The First Time You Login to Smart Heater System

If you have not logged in or are disconnected from the Smart Heater system, click on the Adax icon  in the mobile device applications window, and the login screen will be displayed.

The user has the possibility to login with his social network accounts (social network icons are displayed in the login screen, and to log in with one of them, you simply press on the selected icon), or press on the field “Sign Up”, and sign up by filling in the opened window such fields as the e-mail address and password.

If you have forgotten the login password, press on the field “Lost password?” And the following steps will give full information on how to restore the login data.

To use the system without logging in, select the field “Direct Mode”. Working in this mode, you can have one zone, into which you will include one available electric heating device. This mode is convenient for use of an electric heater, where it is not possible to connect to the home network (Wi-Fi).

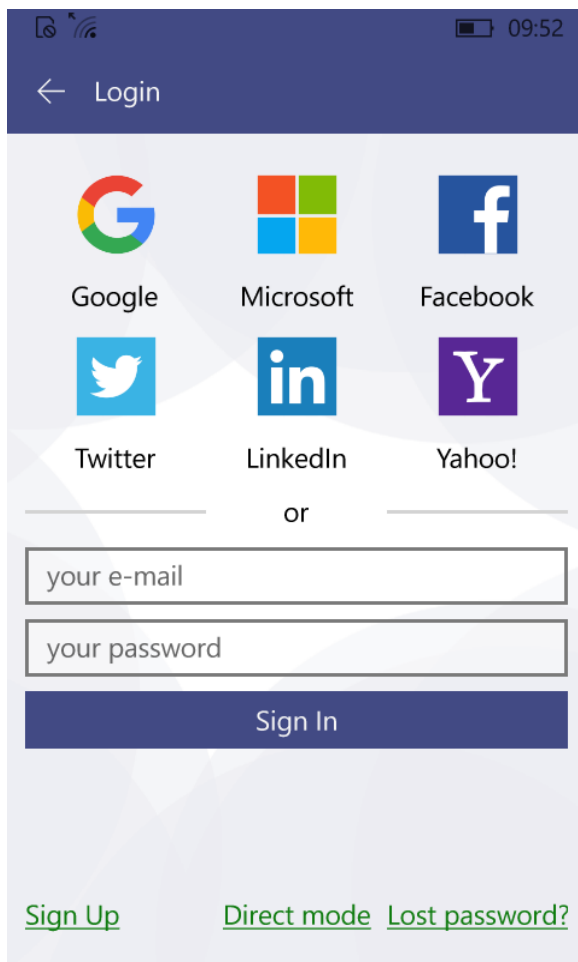


Figure 26. Login screen

Sign-out

If you need to sign out, perform the following actions:

- Press  in the home (zone preview) window;
- Select  (Account) in the opened menu window;
- Press  in the opened user account window.

When connecting to the Smart Heater next time, the login screen will be displayed, where the user shall re-enter all login information, or log in using one of the provided social networks.

Key Functions

Home (Zone Preview) Window

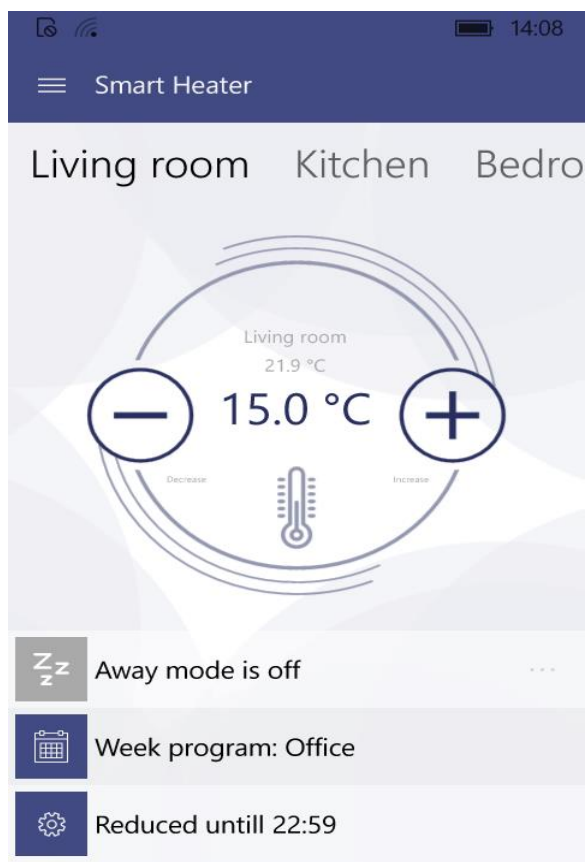


Figure 27. Home (zone preview) window

Once you have logged in, this Home window will be displayed, which also is the zone preview window. Upon the first login, one programmatically created zone will be presented. If you create more zones, you will be able to see all of them, with their custom settings, sliding from one zone window to another (in this window, created zones “Living Room”, “Kitchen”, “Bedroom” are visible).

The functions available in the zone preview window:

- Transition from one zone to another (if more than one zone has been created);
- Increasing/decreasing the set temperature using buttons  and ;
- Activating Away mode by pressing the icon  (currently this icon is inactive, indicating that Away mode is off);
- Setting the weekly heating program by pressing the icon ;
- Pressing the icon  opens the zone settings window.

Menu

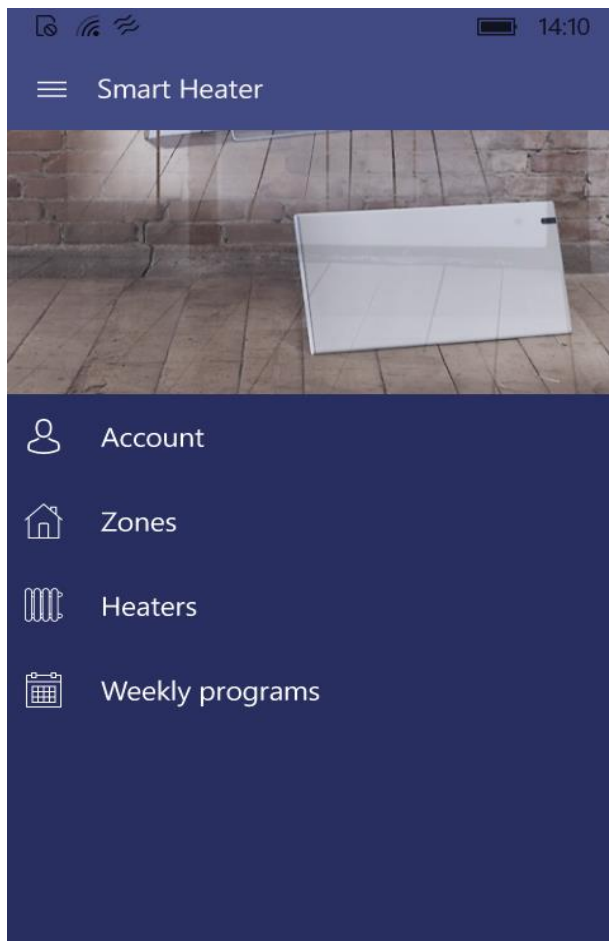


Figure 28. Menu window

This window is accessed by pressing the icon  in the home (zone preview) window. All main functions of the system are accessible from this window:

- “Account” – data of a logged in user;
- “Zones” – list of the zones created by the user;
- “Heaters” – list of the user’s heaters included in the system;
- “Weekly program” – list of weekly heating programs.

Zone

Creating a Zone

A new zone is created in the following steps:  →  → .

The newly created zone will include these programmable settings:

- Zone name “New zone”;
- Programmatically set zone temperature (+20 °C) is shown;
- In the settings window of created zone, the list of all heating modes is presented, with the temperature, which was set recently in any zone.
- Away mode is disabled;
- Heating mode of Away mode is “Reduced”;
- Direct heating of the zone is maintained, i.e., no weekly heating program has been set.

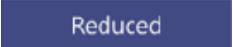
Zone Editing



Figure 29. Window of zone settings

In the window of zone settings, the list of heaters included into that zone is provided (there is one electric heating device in the zone of a sample window). The set heating temperature is provided next to each heater. In the window for setting of each zone, all created heating modes can be reviewed and the temperatures maintained by heating modes characteristic only to this zone can be set for these heating modes. In this window, also the mode is set, according to the numerical value of whose set temperature heating of that zone will be maintained, when you enable Away mode in the home (zone preview) window.

In the provided window, editing of set zone parameters is carried out:

- If needed, the zone name can be changed (if the field of the zone name is left empty by mistake, the system restores a previous name of the zone);
- When the icon  at the bottom of the window is pressed, the list of heaters available in the system is displayed, and if any heater from the heaters list is marked, it will be included into this zone;
- To delete the heater included in the zone, mark the electric heating device you want to remove and press ;
- Set the temperature for the heating modes in the list using the buttons  and ;
- Set the Away heating mode by pressing the button  (the list of created heating modes is displayed, and from it you can select the heating mode for setting the Away mode).

Deleting a Created Zone

To delete the created zone from the list of available zones, the following actions shall be performed:

1. Press the icon  in the home window;
2. Press the icon  (Zones) in the menu window;
3. In the window of zones list, mark the zone you want to delete and press the icon .

Heating Mode

Creating a Heating Mode

To create a new heating mode, the following actions shall be performed:

1. In the home window, press the icon .
2. In the opened menu window, press  ("Weekly programs");
3. In the opened window of the list of weekly heating programs, select one of the weekly heating programs from the list and press the icon .
4. Press  in the opened preview window of the weekly heating program;

-
5. Press the icon  ("Heating modes") in the opened editing (heating period creation) window of the weekly heating program.

The name "New heating mode" is automatically given to the newly created heating mode, which may be changed (renamed) in the same window, a desired numerical temperature value may be set and a colour indication may be assigned. As per colour assigned to the heating mode, in the window of the weekly heating program schedule you will see the time, at which the relevant heating mode will take place.

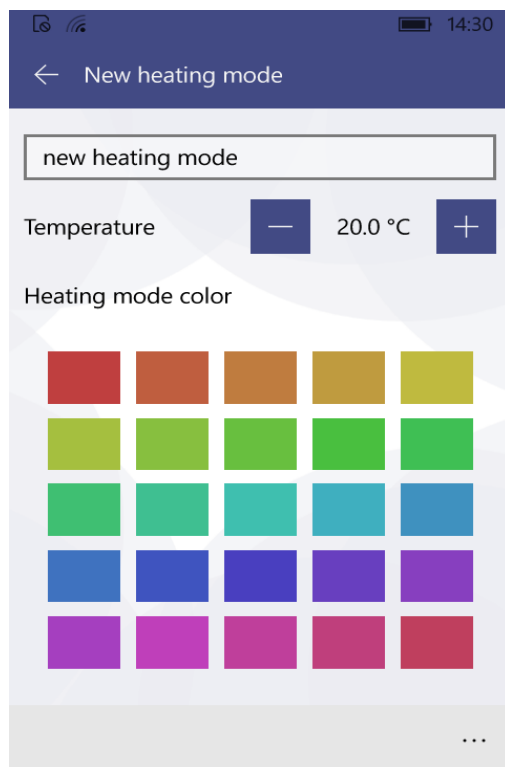


Figure 30. Window of heating mode creation

Editing a Heating Mode

The colour icon assigned to the heating mode is changed in the following steps:  →  → mark one of the provided weekly heating programs and press  → mark the heating mode you want to edit and press .

Note: start performing the provided list of actions from the home (zone preview) window. While these functions are performed, do not edit the numerical value of the heating mode temperature, as this function is performed individually for each zone. I.e., the same weekly heating program can be set for all zones, but operating according to the same schedule of heating modes, it can maintain different numerical values of the temperature of the same heating mode.

No heating temperature can be set for the programmatically created heating mode "OFF".

Deleting a Heating Mode

To delete a heating mode, the following actions shall be performed:  →  → mark one of the provided weekly heating programs and press  → mark the heating mode you want to delete and press .

Note: start performing the provided list of actions from the home (zone preview) window. The programmatically created heating modes and those heating modes, which are used in one of the weekly heating programs in the system cannot be deleted.

Weekly Heating Program

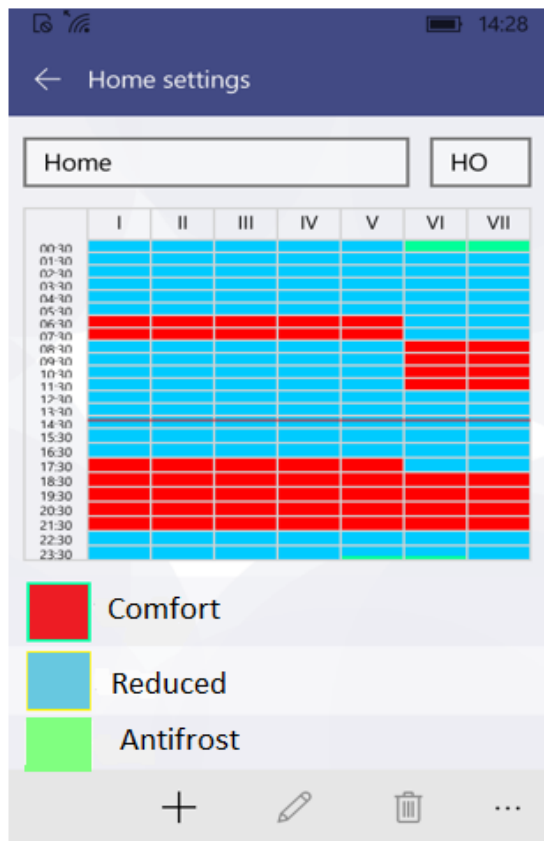


Figure 31. Weekly heating schedule preview window

A detailed heating schedule is provided in the preview window of the weekly heating program, where you can see the weekdays,

the intervals and the heating mode, per numerical value of the set temperature of which (this is shown by the colour indication of a heating mode) heating will be maintained.

In this window the name of a weekly heating program, the short name of the weekly heating program assigned automatically by the system ("HO" in this window), which will be seen on the screen of an electric heating device, can be changed to set the weekly heating program (read more about that in the operating manual of a purchased heater), by pressing, and, if needed, delete the selected heating mode.

Note: only such programmatically created heating modes as "Comfort", "Reduced", "Antifrost" and "OFF" cannot be deleted.

Creating a Weekly Heating Program

To create a new weekly heating program, the following actions shall be performed:  →  → .

In the newly created weekly heating program the following heating parameters will be programmatically set:

- The name "New week program", which can be changed in the preview window of the weekly program schedule;
- Short name. The short name for each next newly created weekly heating program will be "P(n+1)", where n – the number of the last created weekly heating program.
- Programmatically set schedule;
- List of heating modes.

Note: start performing the provided list of actions from the home (zone preview) window.

Editing a Weekly Heating Program

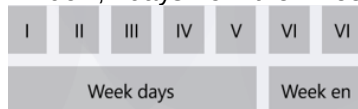
Editing of a weekly heating program is possible upon performance of the following actions:

1. Press  in the home (zone preview) window;
2. Press  in the menu window;
3. In the window of the list of weekly heating programs, mark the weekly heating program you wish to edit, and press  ;
4. Press  in the preview window of the schedule of the weekly heating program.

Editing of a weekly heating program is performed by creating one by one a new period, to which one of the heating modes from the list is assigned.

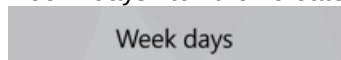
To create a heating period:

- Mark one or several days of the week. In the provided window, days of the week have been marked

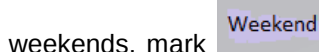


, where  means

Monday,  Tuesday, etc. If you wish to assign all week days to the created heating period, mark



, if you wish to assign only



weekends, mark  . If you want to assign the

whole week, mark both

Week days

and **Weekend**;

- Select the time, from and to which hour the created heating period shall continue (see the fields “From” and “To”);
- Mark the heating mode, per numerical value of the set temperature of which the heating will be maintained at the time selected in the previous steps. If the required heating mode is not in the list, you can create a new one by pressing the button ;
- Upon completion of all steps, press  to save the created period.

Note: to create a heating period, all listed actions shall be performed, otherwise the system will not allow to save the created period. The created heating period of the edited weekly heating program will always write “on the top”, you do not have to remember, what heating periods were created earlier in the edited schedule.

The screenshot shows the 'Add interval' screen in the ADAX Smart Heater app. At the top, there's a status bar with signal strength, battery level, and the time 14:28. Below the title bar, there are seven buttons labeled I, II, III, IV, V, VI, and VI. Underneath these are two buttons: 'Week days' and 'Weekend'. The 'Weekend' button is highlighted with a purple selection box. Below these are two time selection fields: 'From' and 'To'. Each field consists of three input boxes for day, month, and time (PM). Both 'From' and 'To' fields are set to '2', '28', and 'PM' respectively. Below the time fields is a section titled 'Heating modes:' with a blue '+' button to its right. Under this section, there are four color-coded options: 'Vacation' (green), 'Party' (yellow), 'Work' (blue), and a partially visible 'Night' (light blue). At the bottom of the screen, there is a save icon (floppy disk) and a three-dot menu icon.

Figure 32. The window for creating a heating period used in the weekly heating program

Deleting a Weekly Heating Program

A weekly heating program is deleted by marking in the window of the list of weekly heating programs the weekly heating program you wish to delete and pressing .

Control of Electric Heating Devices

Adding an Electric Heating Device to the Zone

An electric heating device is added to the zone by pressing the button  in the setting window of the zone. The list of heaters included in the system is displayed, and by pressing on the name of desired heater, the heater is added to the selected zone.

Editing an Electric Heating Device

Editing of electric heating devices included in the system is possible by selecting in the window of the list of heaters the heater you wish to edit and pressing . The below heater setting window is displayed.

The user has the possibility to change the following settings of a heater:

- The name of electric heating device, by entering a new heater name in the field "Heater name";
- To update firmware by pressing the button



Note: when you have updated Smart Heater system, you can use new and improved functions of your heater. Furthermore, after updating of firmware, the system can start working better.

Non-editable settings of a heater:

- Provided numerical value of the heater's temperature;
- Current version of firmware;
- The latest version of firmware.

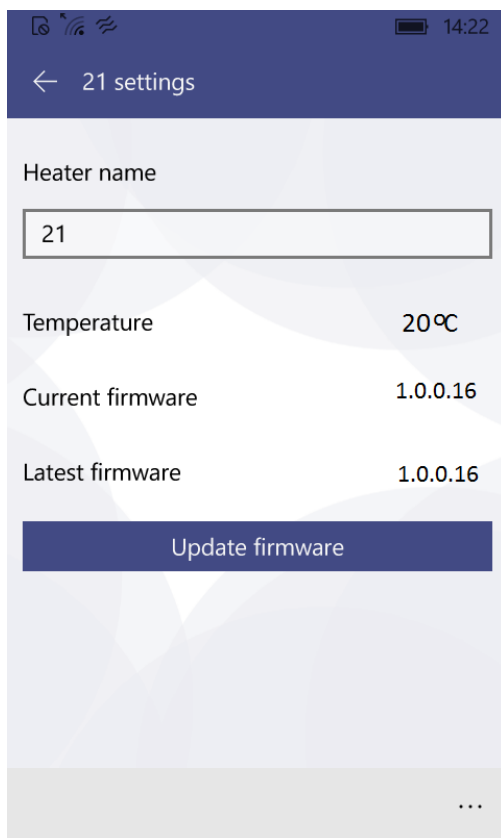


Figure 33. Heater setting window

Deleting an Electric Heating Device from the System

To delete an electric heating device from the Smart Heater app, perform the following actions (the sequence of actions is provided for the user in the home (zone preview) window:

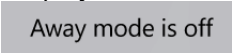
- Press  in the home (zone preview) window;
- Select  ("Heaters") in the displayed menu window;
- Select in the displayed window of the list of heaters included in the Smart Heater system the electric heating device you wish to delete from the system and press .

Away Mode

This is the mode, which stops at a set time all heating parameters configured in the Smart Heater app. This includes manually configured heating temperature, heating mode or ongoing weekly heating program.

Turning Away Mode On

To turn Away mode on, perform the following actions:

- Press  Away mode is off (in the home (zone preview) window this button shows the status of Away mode) (in this window, Away mode is off);
- In the displayed window of Away mode, press the button .

The final operation of Away mode is set in two ways:

- If the user knows a definite time, when Away mode shall turn off, then marking the field  ("Keep away until stopped") displays the next window, where the

year, month, day, hour and minutes, when Away mode shall end, can be set in detail;

- If the user does not know a definite time, when Away mode shall end, he shall leave the field in the first

window marked  , and this mode will turn off, when the user turns off Away mode by pressing the button

Away mode is on

(when Away mode is turned off, the button of OFF status is displayed

Away mode is off

).

Note: when Away mode stops operating, all heating parameters of the zones previously set will be restored to the parameters, according to which the heater maintained the heating, before the Away mode was turned on.

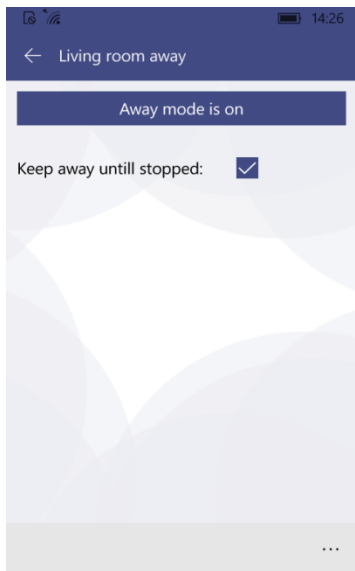


Figure 34. Window 1 of Away mode



Figure 35. Window 2 of Away mode

Turning Away Mode Off

To turn Away mode off, perform the following actions:

- Press  **Away mode is on** in the home window;

- Press  in the displayed window of Away mode (when Away mode is turned off in this window, the button of an opposite status is displayed, showing that Away mode is off ("Away mode is off")).

Note: when Away mode is turned on, and a specific time is set, when Away mode should end, this function turns off automatically at the set time, and further the electric heating device maintains heating according to the previously set weekly heating program, the heating mode of which corresponds to the heating mode temperature set according to the time interval.

Linking an Electric Heating Device with the Smart Heater App

To control a purchased electric heating device using the Smart Heater app (on the computer or other device that supports Windows operating environment), the electric heating device shall be linked with the Smart Heater app.

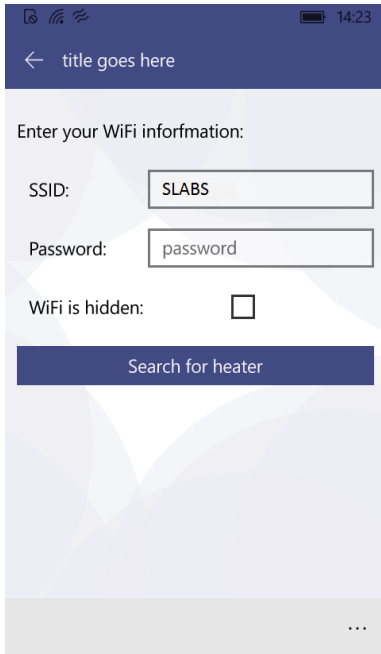
Note: the list of all electric heating devices included in the system can be reviewed in the window of electric heating devices, which is accessible:

- By pressing  in the home (zone preview) window;
- preview) window;
- By selecting  in the menu window.

How to Successfully Register the Existing Heater

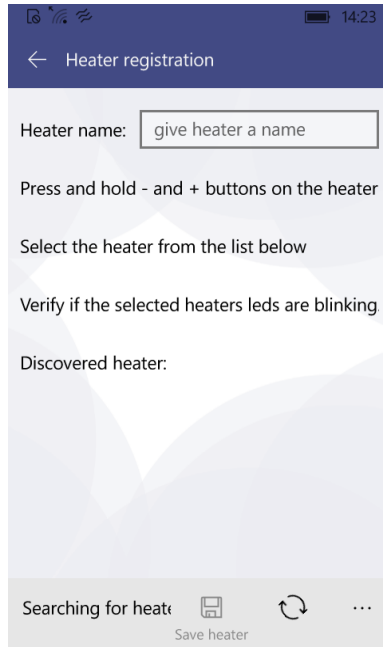
1. In the home network (Wi-Fi) information field, correctly fill in the fields "SSID" (home network name) and "Password". It is recommended to leave the field "Wi-Fi is hidden" marked ;
2. Press the button ;
3. On the screen of the heater you wish to include in the system, press and hold the buttons "+" and "-" together, until the symbol SC (Smart Configuration) is displayed on the screen;
4. In the SmartHeater app, press on the found heater's name in the heater registration window ("Heater registration"), in the field "Discovered heater";
5. Check, whether a red light is blinking on the screen of the heater you wish to link with the SmartHeater app;
6. Write the desired heater's name in the SmartHeater app, in the field "Heater name" of the heater registration window;
7. Press the button  at the bottom of the window.

Note: It is recommended to perform the function of linking the existing heater with SmartHeater app separately for each existing heater.



The screenshot shows a mobile app interface for connecting to Wi-Fi. At the top, there's a status bar with signal, Wi-Fi, and battery icons, and a time of 14:23. Below the status bar is a dark blue header with a back arrow and the text "title goes here". The main content area has a light blue background with the text "Enter your Wi-Fi information:". There are two input fields: "SSID:" with the value "SLABS" and "Password:" with the value "password". Below these is a checkbox labeled "WiFi is hidden:" which is currently unchecked. At the bottom of the form is a dark blue button with the text "Search for heater".

Figure 36. Wi-Fi connecting window



The screenshot shows a mobile app interface for heater registration. At the top, there's a status bar with signal, Wi-Fi, and battery icons, and a time of 14:23. Below the status bar is a dark blue header with a back arrow and the text "Heater registration". The main content area has a light blue background. It starts with a text input field labeled "Heater name:" with the placeholder text "give heater a name". Below this is a paragraph of text: "Press and hold - and + buttons on the heater". This is followed by another paragraph: "Select the heater from the list below". Then, another paragraph: "Verify if the selected heaters leds are blinking". Below that is a text input field labeled "Discovered heater:". At the bottom of the form is a dark blue button with the text "Save heater".

Figure 37. Heater registration window

Supported Wi-Fi connection types:

1. WPA2 Personal;
2. WPA/WPA2 Personal Mixed.

Smart Heater application:

