



**User manual:
Control Box Mobile Application**

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1. TELETHINGS CONTROL BOX MOBILE APPLICATION USER MANUAL

1.1. BASIC INFORMATION / PRODUCT DESCRIPTION

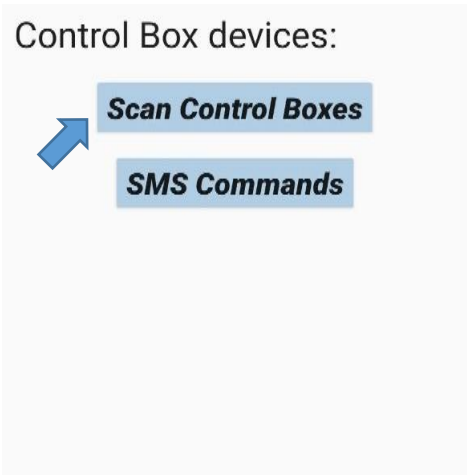
Control Box mobile application was made with a goal to add new functionalities while using Control Box and Home Sensor. Main function of the application is connecting with Control Box via Bluetooth and configuring Control Box and Home Sensor. Application layout deviations are possible depending on mobile phone's Android OS version.

2. TELETHINGS CONTROL BOX MOBILE APPLICATION USER MANUAL

2.1. STEPS FOR PAIRING WITH DEVICE VIA BLUETOOTH

After the application is downloaded and installed on mobile device, Control Box must be paired with mobile device using Bluetooth.

Upon entering the application, permissions will be requested to accept in order for scanning Control Box devices could work.



Pressing the button initiates operation for scanning Bluetooth devices



New Control Box device has been found



After entering correct Bluetooth password, device is successfully paired

1.1. CHANGING BLUETOOTH PASSWORD

It is recommended to change Bluetooth password to protect device from unwanted intrusion of another person.

The screenshot shows the main menu of the Telethings CB00001 application. The menu items are: Date and Time, Sensors, Areas, Current data, Security, Mobile Network, and Settings. Annotations with arrows point to specific items: 'Available Sensor's settings and informations' points to 'Sensors'; 'Control Box's date and time settings' points to 'Date and Time'; 'Available areas and its informations' points to 'Areas'; 'Information about sensors that are located in areas' points to 'Current data'; 'Changing bluetooth password' points to 'Security'; 'Allowing SMS commands and using time provided by network' points to 'Mobile Network'; and 'Control Box settings' points to 'Settings'.

Application's main menu

The Security screen contains three input fields: 'Old password' (with placeholder 'Enter old password'), 'New password' (with placeholder 'Enter new passowrd'), and 'New password (repeat)' (with placeholder 'Repeat new password'). A 'Change password' button is at the bottom. An arrow points to the 'New password' field.

By pressing on each field, an input dialog is opened to enter password

The Security screen is shown with a modal dialog box titled 'Password:' containing a text field with '0000' and 'CANCEL' and 'OK' buttons. An arrow points to the 'OK' button.

Enter a new password

The Security screen is shown with the 'Change password' button highlighted. An arrow points to the button.

Pressing the button saves bluetooth password's changes



1.2. CONTROL BOX DATE AND TIME SETTINGS

To change Control Box's date and/or time, it is necessary to select Date and Time settings on application's main menu.

Control Box's date

Control Box's time

Date and Time

Synchronize with this device

Date

11.03.2020.

Time

10:19

Synchronize automatically

Control Box date and time will be synced at logon

Synchronizing Control Box's date and time with mobile device

Synchronizes Control Box date and time with mobile device upon launching application

Control Box's date and time settings

Date and Time

Synchronize with this device

Date

2020.

uto, 27. okt

oktobar 2020.

1 2 3 4

5 6 7 8 9 10 11

12 13 14 15 16 17 18

19 20 21 22 23 24 25

26 27 28 29 30 31

OTKAŽI UREDU

Choosing Control Box's date

Date and Time

Synchronize with this device

Date

27.10.2020.

Time

10:19

Syn

18:30

00 05 10 15 20 25 30 35 40 45 50 55

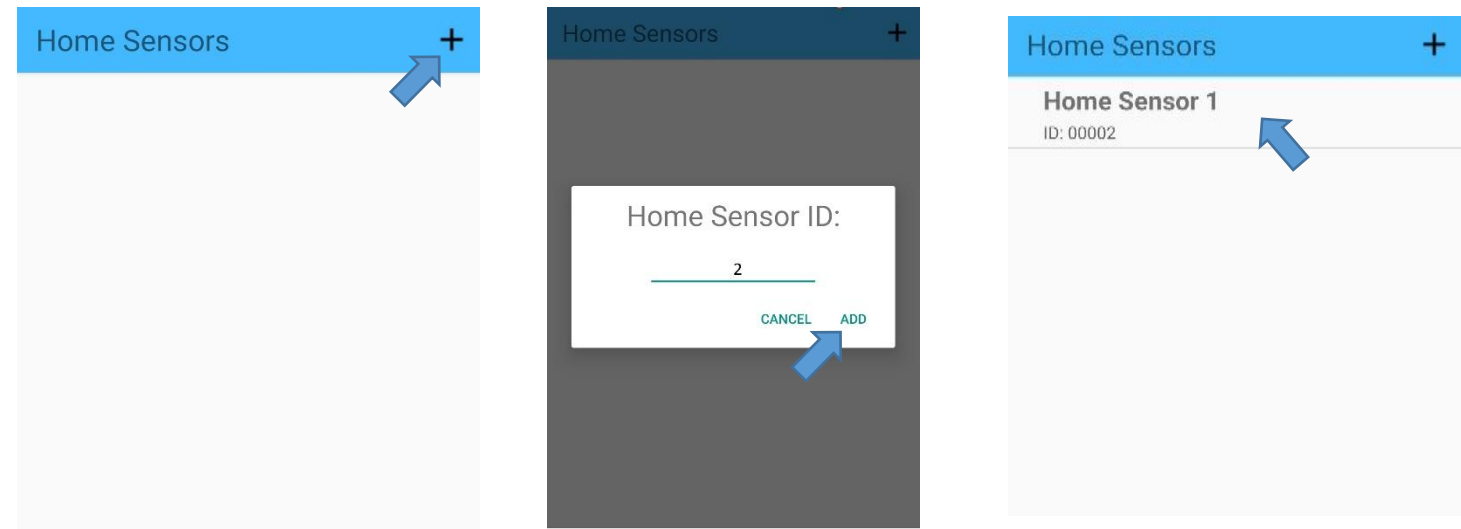
OTKAŽI UREDU

Choosing Control Box's time



1.3. ADDING HOME SENSOR ON CONTROL BOX

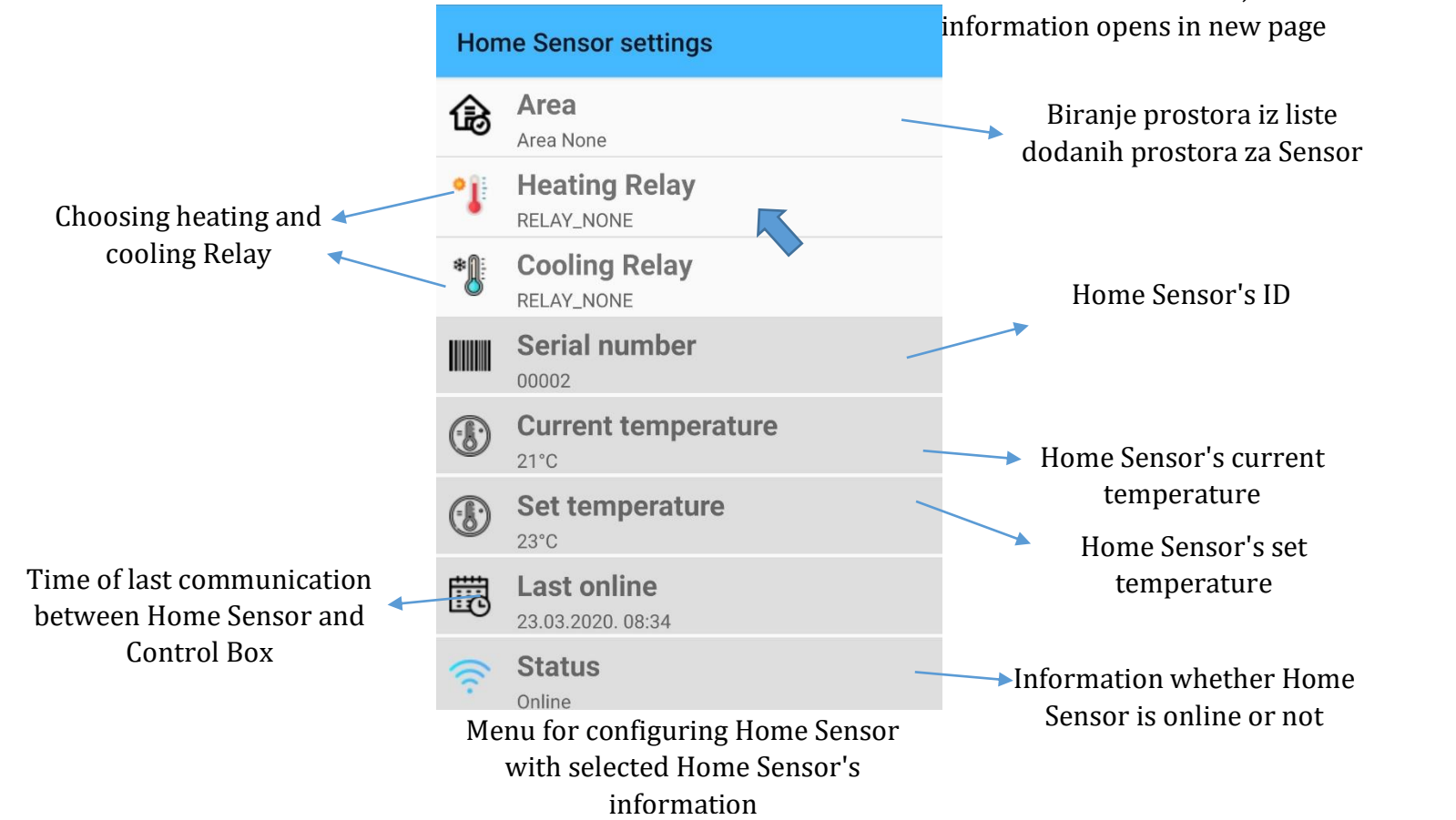
To add new Home Sensor on Control Box device, Home Sensors settings should be selected on application's main menu.



By pressing '+', dialog for entering Home Sensor ID opens

Entering Home Sensor ID: 2

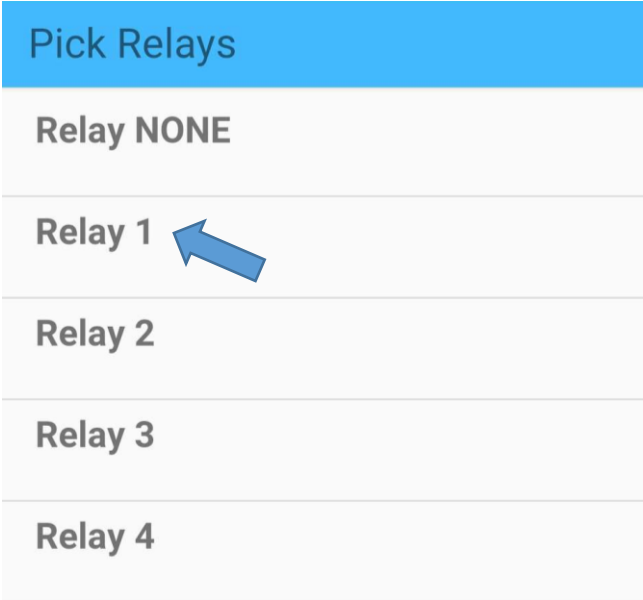
Home Sensor with ID 2 was successfully added. By selecting one of Home Sensors, its information opens in new page



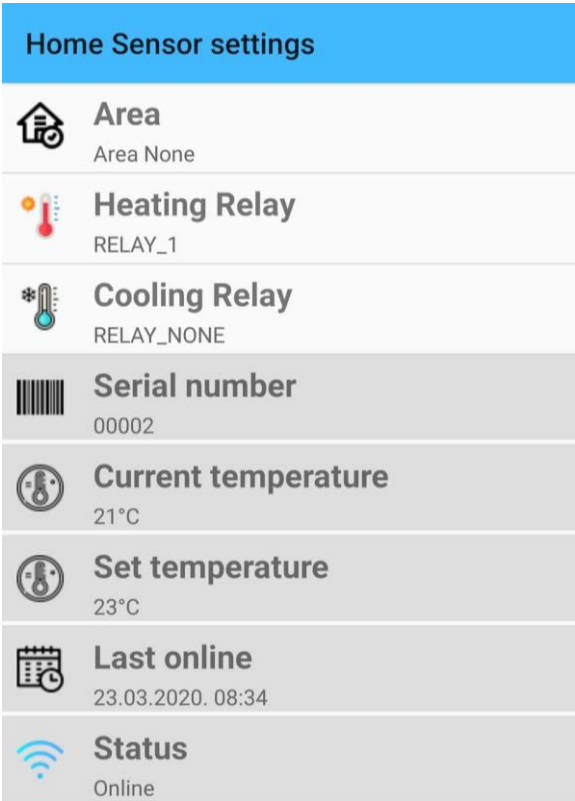
By long pressing on one of added Home Sensors, a dialog for **deletion** of that Sensor appears.

1.4. CHOOSING HEATING AND COOLING RELAYS

By pressing the button for choosing relays for heating or cooling, a new page for selecting one of 4 relays opens, aswell as an option without Relay.



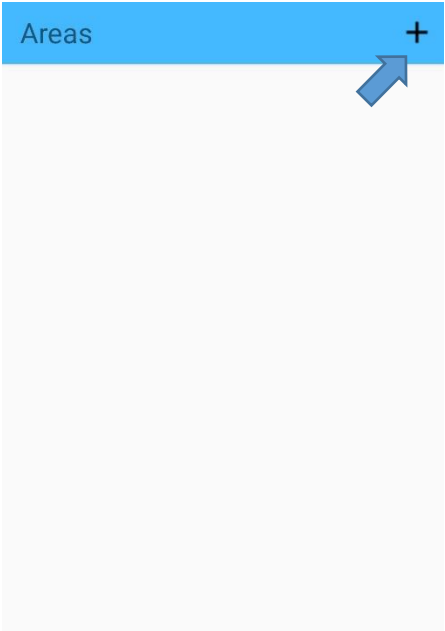
Menu for picking relay. In this example, Relay 1 for heating is selected



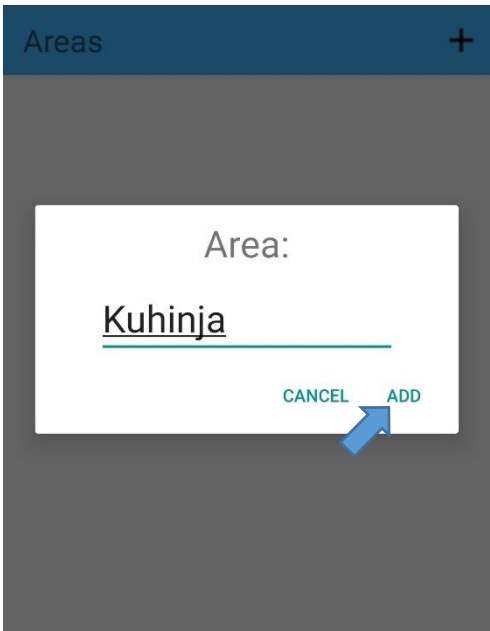
Home Sensor's settings with selected heating relay

1.5. ADDING NEW AREA ON CONTROL BOX

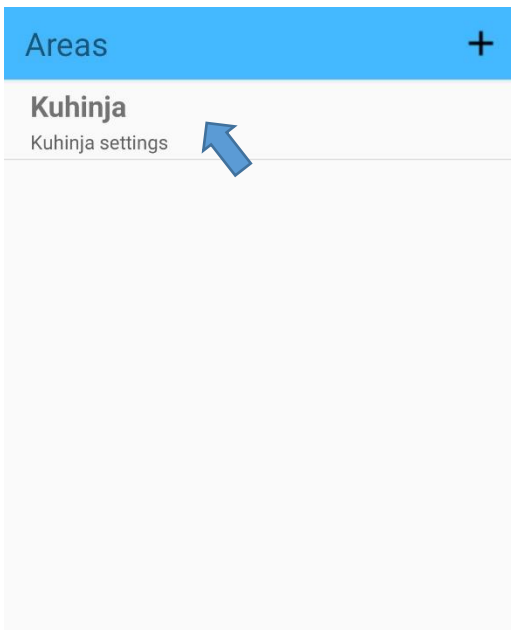
To add new Area on Control Box device, Area settings should be selected on application's main menu. By long pressing on one of added Areas, a dialog for **deletion** of that Area appears. If Home Sensor is not online, instead of temperature a text will be shown to check the device.



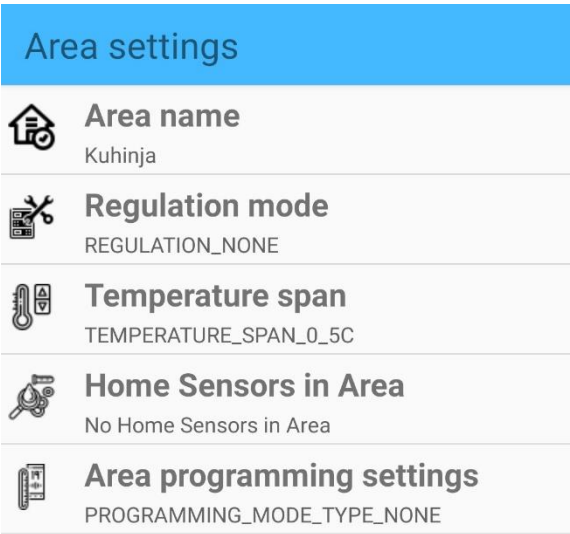
By pressing '+', a dialog for entering Area name appears



Adding Area with the name: Kuhinja



Area with name Kuhinja was successfully added. By selecting one of Areas, its information opens



Settings of the selected Area

Options for configuring the selected Area:

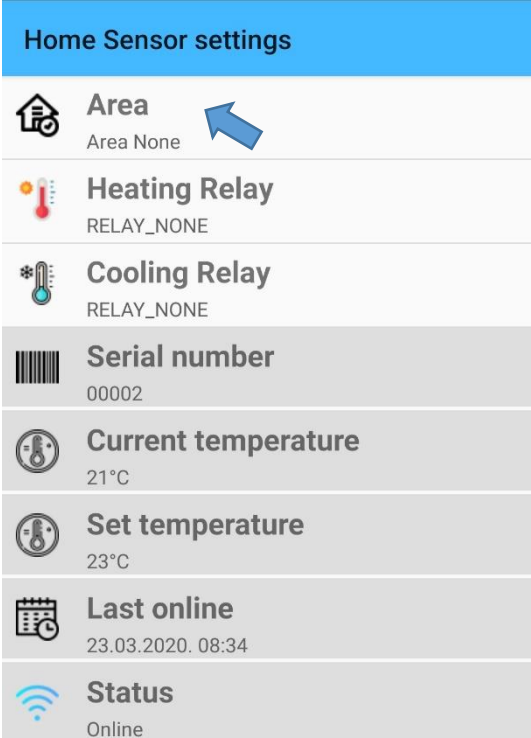
- 1. Changing Area name,
- 2. Choosing regulation mode (No regulation - NONE, heating, cooling or heating and cooling),
- 3. Regulation's temperature span (0.5°C, 1°C, 1.5°C i 2°C),
- 4. Adding free Home Sensor in Area
- 5. Choosing program mode (No program mode - NONE, 1 day, week days and weekend and 7 days)



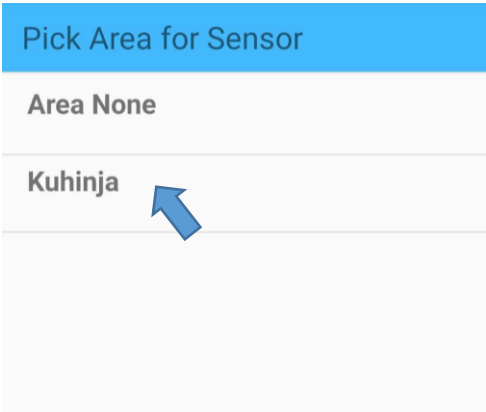
1.6. ADDING HOME SENSOR IN AREA

After adding new Home Sensor and a new Area, newly added Home Sensor should be added in one of Areas. There are two ways to add Home Sensor in Area:

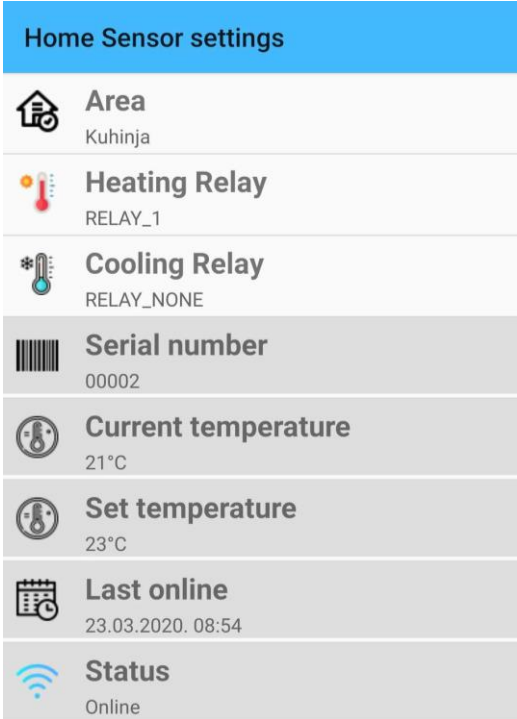
1. Adding Home Sensor in Area in Home Sensor's settings



By pressing Area in Home Sensor's settings, a list with all available Areas is shown, and also an option with no selected Area (Area None)

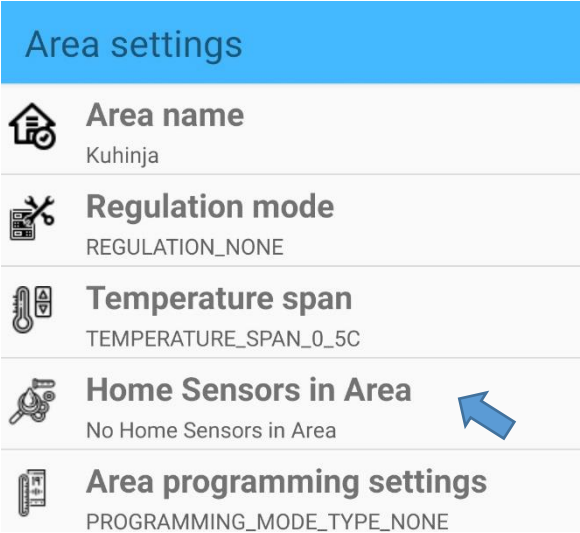


List with all added Areas and also an option with no selected Area (Area None)



Home Sensor setting's view after adding Sensor in Area 'Kuhinja'

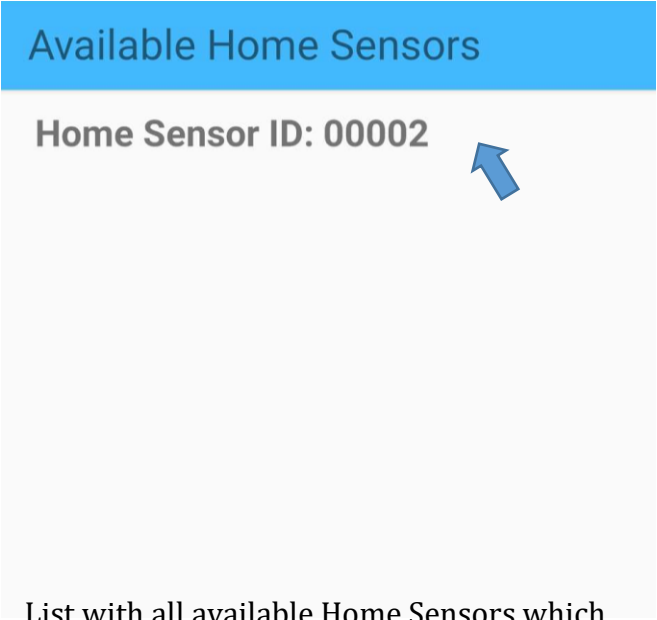
2. Adding Home Sensor in Area in Area's settings



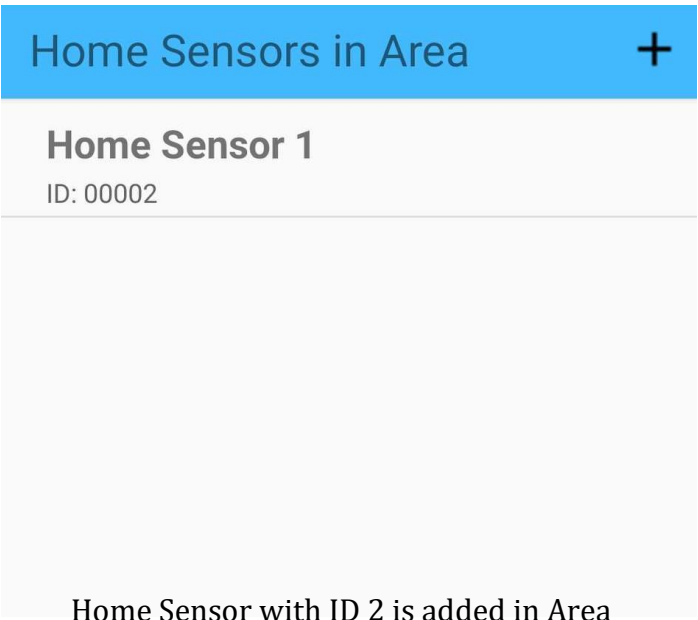
Choosing option for Home Sensors which are in selected Area



By pressing '+', a new list opens with all Sensors which are not in any Area



List with all available Home Sensors which are not in any Area



Home Sensor with ID 2 is added in Area 'Kuhinja'

1.7. CHANGING AREA'S NAME

To change name of some Area, it should be pressed on current Area name in Area's settings. By pressing on Area's name, a dialog for entering new name is opened.

Area settings

Area name

Kuhinja

Regulation mode

REGULATION_NONE

Temperature span

TEMPERATURE_SPAN_0_5C

Home Sensors in Area

Number of Home Sensors in Area: 1

Area programming settings

PROGRAMMING_MODE_TYPE_NONE

Clicking on Area's name, dialog for entering new name opens

Area settings

Area name

Kuhinja

Regulation mode

REGULATION_NONE

Temperature span

TEMPERATURE_SPAN_0_5C

Home Sensors in Area

Number of Home Sensors in Area: 1

Area:

Dnevna soba

CANCEL UPDATE

Entering new name

Area settings

Area name

Dnevna soba

Regulation mode

REGULATION_NONE

Temperature span

TEMPERATURE_SPAN_0_5C

Home Sensors in Area

Number of Home Sensors in Area: 1

Area programming settings

PROGRAMMING_MODE_TYPE_NONE

Area's information after changing Area name

1.8. CHOOSING REGULATION MODE AND TEMPERATURE SPAN

To change regulation mode, Regulation mode should be selected in Area's settings and choose one of 4 regulation modes (no regulation, heating, cooling, heating and cooling).

Area settings

Area name

Dnevna soba

Regulation mode

REGULATION_NONE

Temperature span

TEMPERATURE_SPAN_0_5C

Home Sensors in Area

Number of Home Sensors in Area: 1

Area programming settings

PROGRAMMING_MODE_TYPE_NONE

Choosing option for changing regulation mode

Area settings

Regulation NONE

Regulation Heating

Regulation Cooling

Regulation Heating and Cooling

Selecting heating regulation mode

Area settings

Area name

Dnevna soba

Regulation mode

REGULATION_HEATING

Temperature span

TEMPERATURE_SPAN_0_5C

Home Sensors in Area

Number of Home Sensors in Area: 1

Area programming settings

PROGRAMMING_MODE_TYPE_NONE

Area's information after changing regulation mode

Changing temperature span is similar as changing regulation mode. In Area's settings Temperature span should be selected and one of 4 temperature spans picked.

Area settings

Area name
Dnevna soba

Regulation mode
REGULATION_HEATING

Temperature span
TEMPERATURE_SPAN_0_5C

Home Sensors in Area
Number of Home Sensors in Area: 1

Area programming settings
PROGRAMMING_MODE_TYPE_NONE

Choosing option for changing temperature span

Area settings

Temperature span 0_5C

Temperature span 1C

Temperature span 1_5C

Temperature span 2C

Picking temperature span 1°C

Area settings

Area name
Dnevna soba

Regulation mode
REGULATION_HEATING

Temperature span
TEMPERATURE_SPAN_1C

Home Sensors in Area
Number of Home Sensors in Area: 1

Area programming settings
PROGRAMMING_MODE_TYPE_NONE

Area's information after changing temperature span

1.9. AREA'S TEMPERATURE SETTINGS WITH PROGRAM MODES

Setting the temperature in an Area can be done with Area's program modes.

In case that no program mode (NONE) is selected, a control for selecting the temperature will be shown, but if some other mode is selected, setting the temperature is done with periods.

Area settings

Area name
Dnevna soba

Regulation mode
REGULATION_HEATING

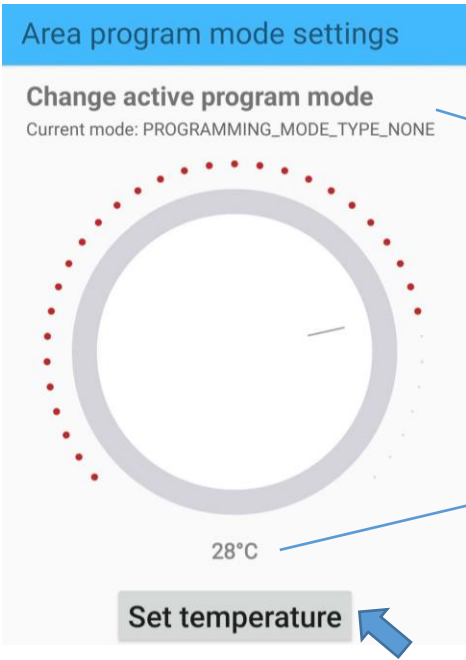
Temperature span
TEMPERATURE_SPAN_0_5C

Home Sensors in Area
Number of Home Sensors in Area: 1

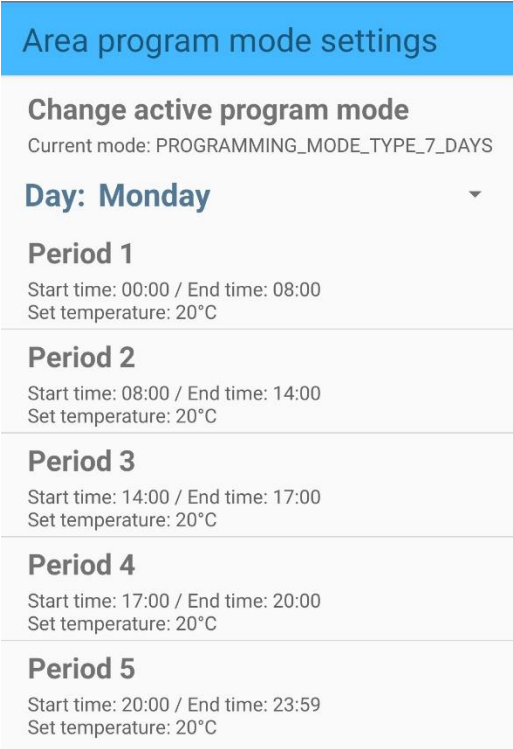
Area programming settings
PROGRAMMING_MODE_TYPE_NONE

Choosing option for Area's program mode settings

TeleThings Control Box mobile application



No program mode (NONE) with temperature selection



Program mode 7 days with periods

Program modes:

- 1. No program mode (NONE) – works always the same according to set temperature
- 2. Program mode 1 day – Mode which works every day based on configured periods,
- 3. Program mode weekdays and weekend – Mode which works weekdays or weekend based on configured periods (if this mode is selected, option for choosing weekdays or weekend is shown),
- 4. Program mode 7 days – Mode which works every day based on configured periods and selected day (if this mode is selected, option for choosing day is shown)

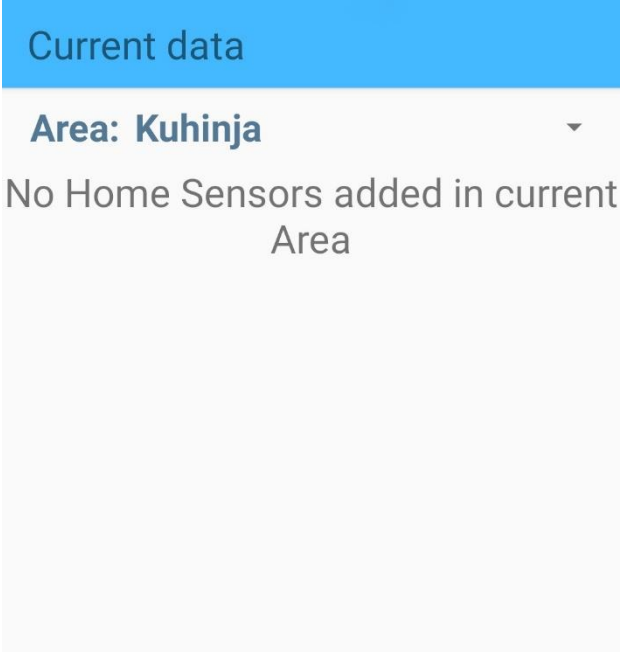
Periods are setting temperature in Area with start time and end time with selected temperature for every of 5 periods.

Here, no program mode (NONE) is selected and temperature for Area Dnevna soba is set on 28°C.

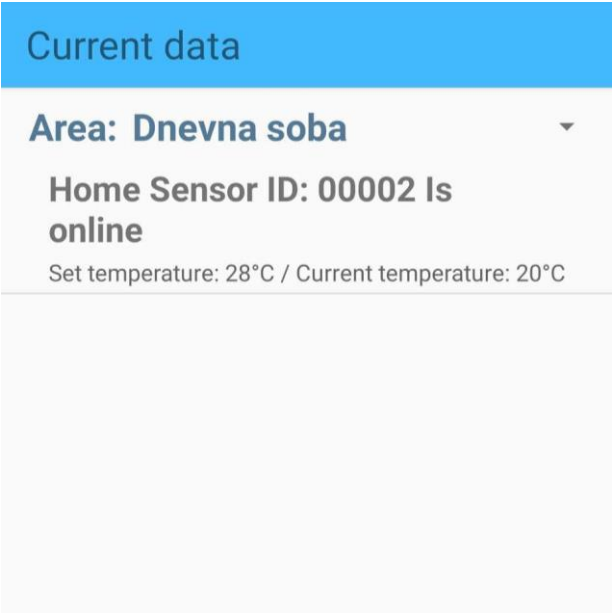


1.10.CURRENT DATA OF HOME SENSORS IN AREA

By entering menu for showing current data of Home Sensors, a list with all added Areas with their Home Sensors is shown.



Current data without Home Sensors in Area

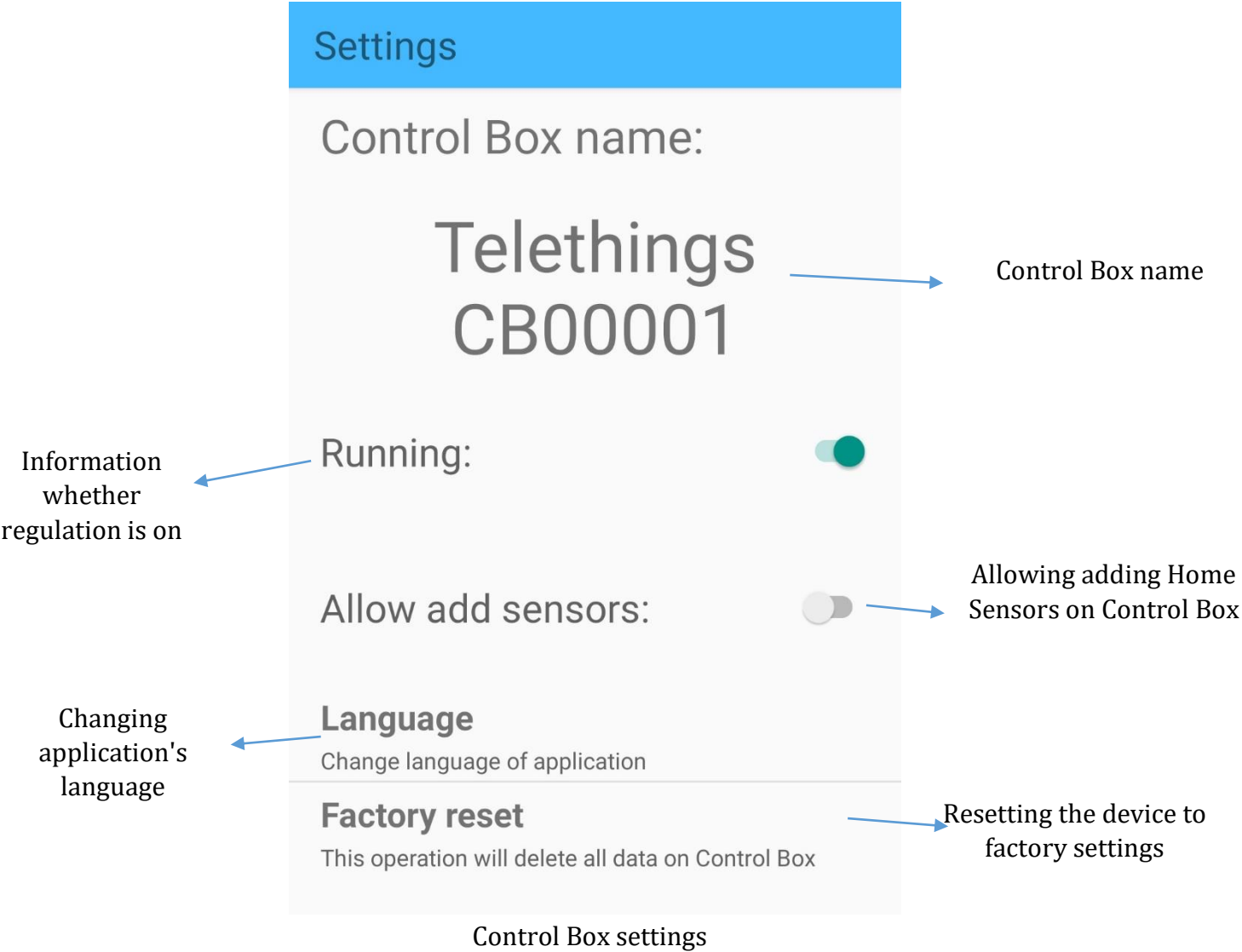


Current data with Home Sensors in Area

Note that the set temperature is 28°C, because it was previously set in program modes.



1.11.CONTROL BOX SETTINGS

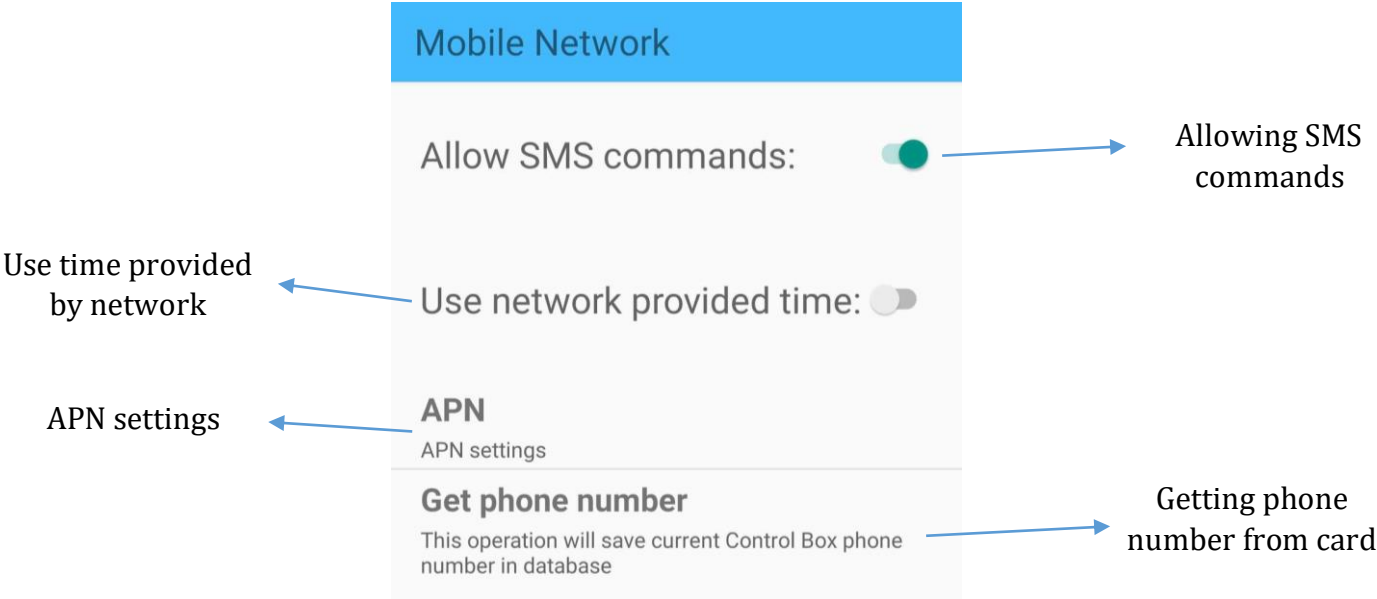


If **adding Home Sensors** is not allowed in Control Box settings, it's not possible to add Home Sensor, and it should be allowed before adding new Home Sensors. After adding new Home Sensor on Control Box, it's recommended that **adding Home Sensors is off**.

After pressing on Factory reset, a dialog for requesting bluetooth password is shown. If the password is correct, Control Box is being reset to factory settings and the password is changed back to : 1234.

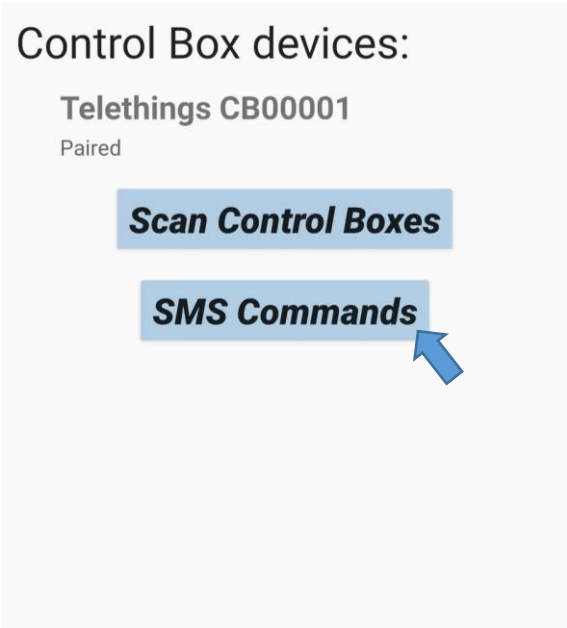
1.12.SMS COMMANDS

For SMS commands to be used correctly, SMS commands must be allowed in Mobile Network setting, and then phone number must be updated in database by pressing on option for getting phone number.



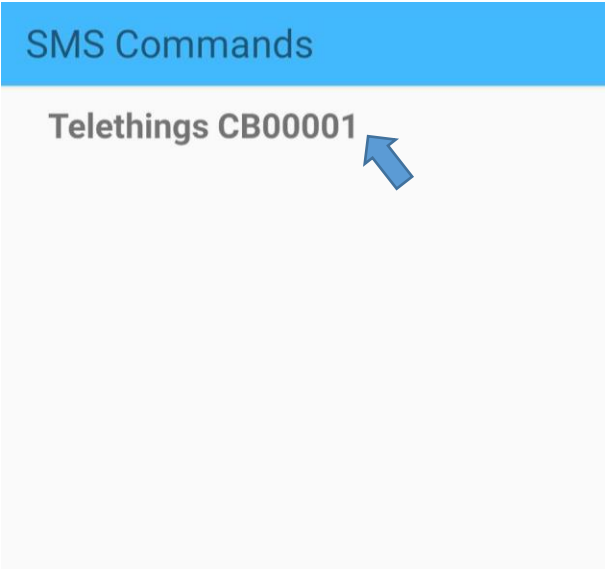
After updating phone number from card and allowing SMS commands, everything is ready for executing SMS commands.

On main screen, except scanning for new bluetooth devices, there is an option for entering page for SMS commands.



By pressing button for SMS commands, a new page for SMS handling opens





Choosing the device SMS command will be sent to



Selecting command for SMS

After device is selected for SMS commands, a new window for choosing desired command opens. In this example, selected command is to turn Control Box on – Turn ON. After choosing command, only thing left to do is press the button Send SMS Message and the message will be sent to Control Box device.