

# MOSTAT<sup>TM</sup>

BY ALIEN GREEN

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Instructions for Installation v1.0



ALIEN GREEN

# USER SAFETY GUIDANCE

Read the instructions attentively before starting installation of the thermostat, as the booklet contains important information about safety guidance and normative rules regarding the thermostat and its installation. Keep the User Safety Guidance for further usage, if needed.

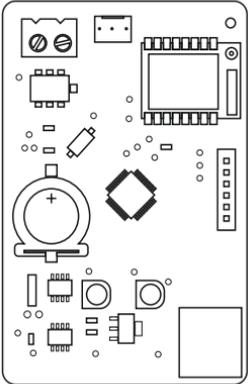
- The thermostat must be set up according to current installation standards
- Before starting the work, make sure the boiler is NOT supplied with voltage power
- Read all warnings with great attention!

 **NOTE:** The pictures of the printed circuit board of the boiler in the User Safety Guidance give a general idea of its looks while an actual printed circuit board may differ schematically in products of the various manufacturers.

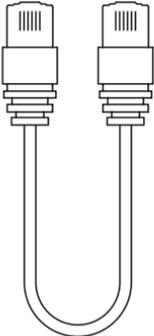
# IN THE BOX



Temperature and Humidity Transmitter (Room Sensor)



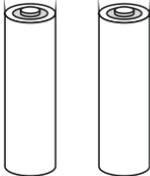
Process Control Block (PCB)



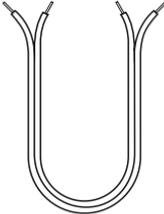
Power Cable



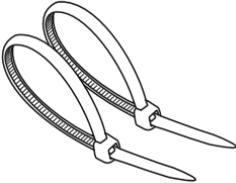
Antenna Connector



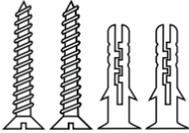
2x AA Batteries



2-strand Wire



2x Cable Ties

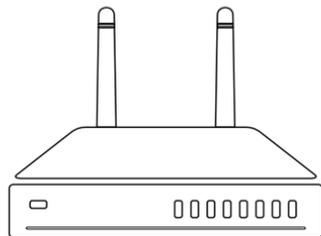


2x Bolts



Outside Antenna

# DEVICE DESCRIPTION

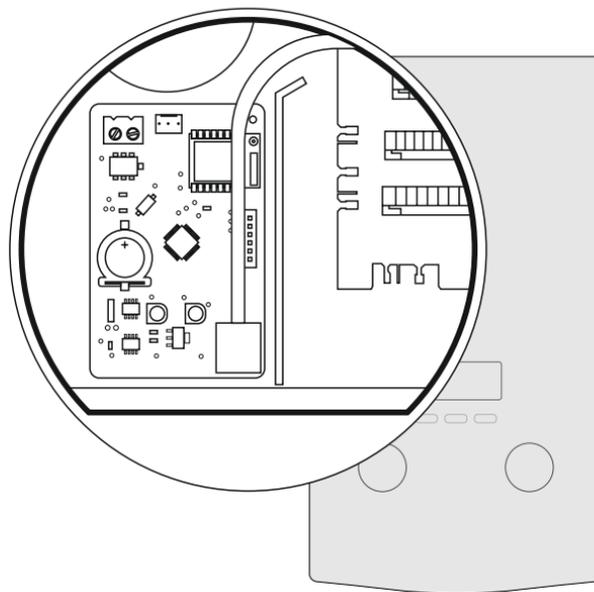


Wi-Fi router is connected to the Internet, and provides the connection between the devices (NOT applied to the complex)



The temperature and humidity transmitting sensor can be installed in the office, or private residence

Process control block (PCB)  
is installed in the central heating boiler

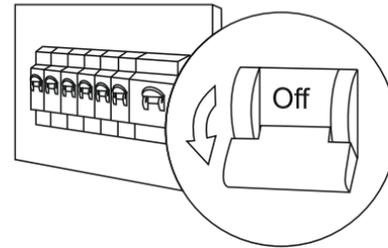
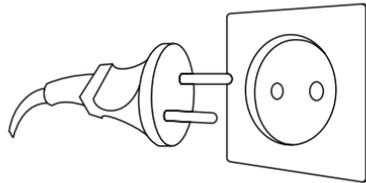


# INSTALLATION

## Setting up the process control block (PCB) in the central heating boiler



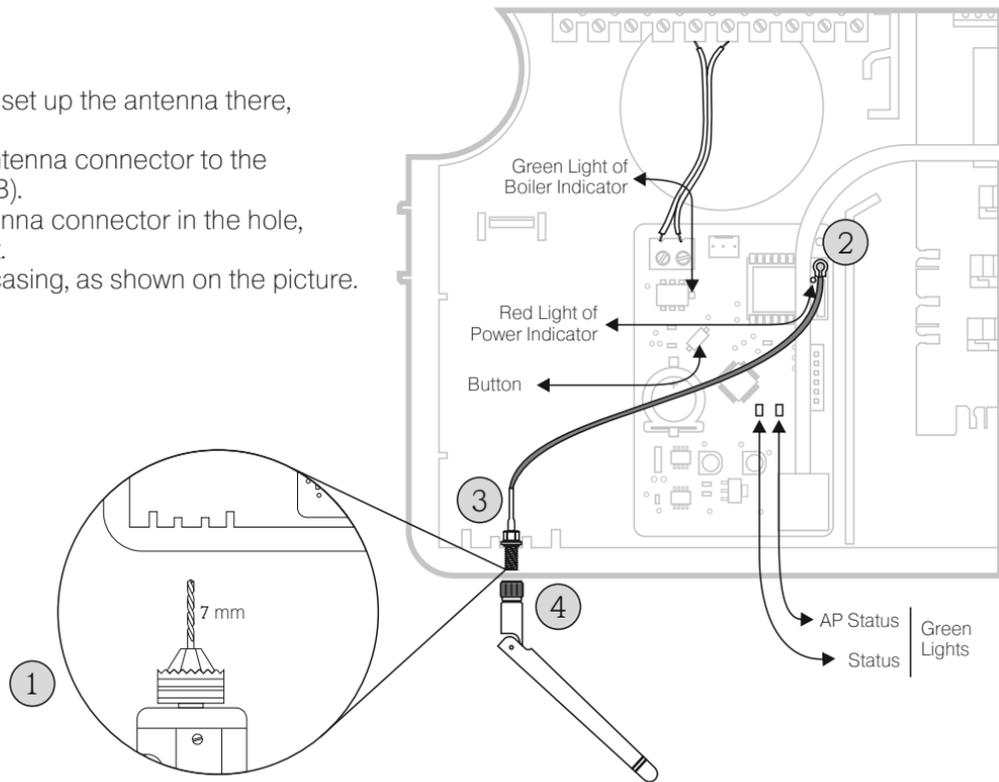
CAUTION: Before starting the work, please make sure that the boiler is NOT supplied with voltage power!



Unpack the **process control block (PCB)**.

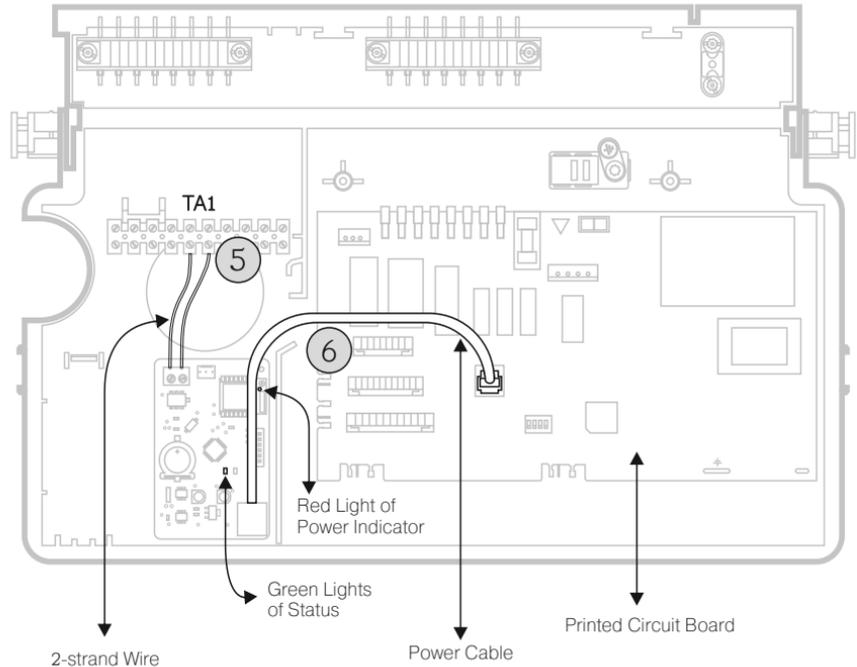
Open the boiler so that you can reach the printed circuit board.  
(If necessary, use the instructions for the boiler).

1. Drill a hole in the casing to set up the antenna there, as shown on the picture.
2. Connect one end of the antenna connector to the process control block (PCB).
3. Fix another end of the antenna connector in the hole, and wrap it around the bolt.
4. Screw the antenna to the casing, as shown on the picture.



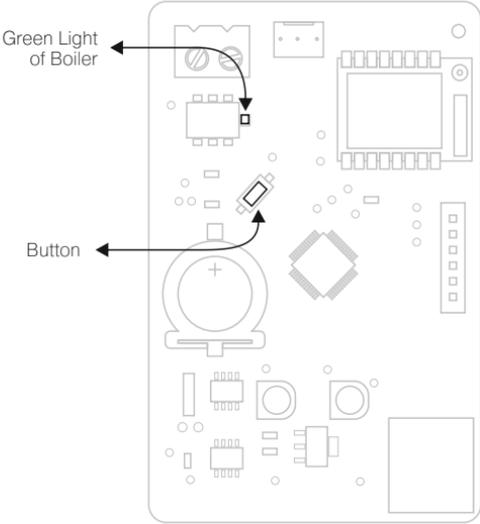
- Find the connector for the room thermostat with the number TA1 (if you have a boiler by Ariston), or TA,LS-LR,COM-NO (if you have a boiler by any other manufacturer but Ariston). Disconnect the connector on TA1, and connect the 2-strand wire, as shown on the picture.
- Connect one end of the power cable to the process control block (PCB), and another end of the power cable to the printed circuit board, as shown on the picture.

Make sure that everything is connected according to the instructions, and switch on the central heating boiler. If the power cable is connected to the process control block (PCB), the red light appears while the green light of **Status** is blinking.



# FUNCTIONAL TESTING

Push the button on the process control block (PCB) once and wait till the green light appears on the boiler. If the connector (TA1) of process control block (PCB) is connected properly, the boiler flame will appear within 10 seconds. The flame will fade when the button on the process control block (PCB) is pushed again. If the boiler flame did not appear, swap the strands of TA1 wire, and repeat the procedure.



## ONLINE ACTIVATION OF THE THERMOSTAT AND ITS LINKAGE TO THE PERSONAL ACCOUNT

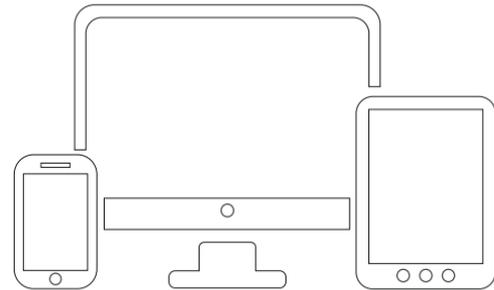
Online activation of the thermostat is necessary for receiving the full service. For online activation, please open the thermostat application on your mobile phone, or go on the web page <https://app.aliangreen.ge> from your computer, and register yourself as a user.

Open **MOSTAT** application in the mobile phone, and push the **Configuration** button.

Using Wi-Fi of your mobile phone, connect to Mostat device named **MOSTAT-[Serial number of your device]**. If asked for a password, type in capital letters: **MOSTAT123**, and follow the application instructions.

The application will connect the devices to your home Internet.

QR-CODE can also be used for downloading the application



# DESCRIPTION OF PROCESS CONTROL BLOCK (PCB)

The red light of power indicator is on when the process control block (PCB) is supplied with voltage power.

The green light of **Status** is blinking when the factory reset, i.e. configuration option is active.

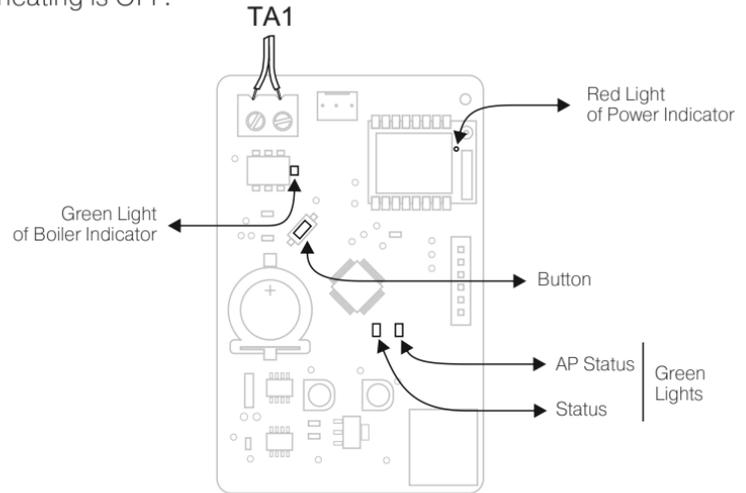
The green light of **AP-Status** is blinking when the device is connecting to Wi-Fi router.

The green light of **Status** is on when the process control block (PCB) is active.

The green light of **AP-Status** is on when the process control block (PCB) is connected to the Wi-Fi router.

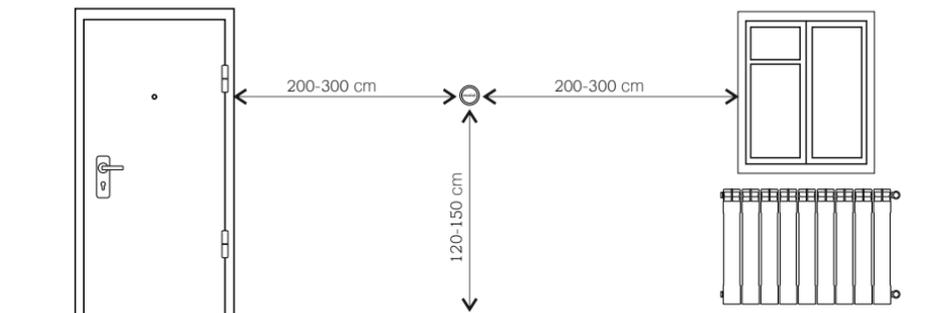
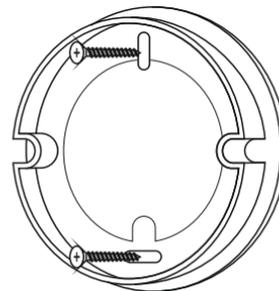
The green light of boiler indicator is ON when the heating is ON.

The green light of boiler indicator is OFF when the heating is OFF.



## SETTING UP THE ROOM SENSOR

- It is recommended to set up the room sensor in the area of private residence where the family members spend most of their time.
- The distance between the floor and the device must be 120-150 cm.
- The device must be 200-300 cm away from the door and windows.
- Avoid the sunlight.



TIP: These recommendations are given for avoiding the measurement errors of temperature

## CONFIGURATIONS OF THE ROOM SENSOR

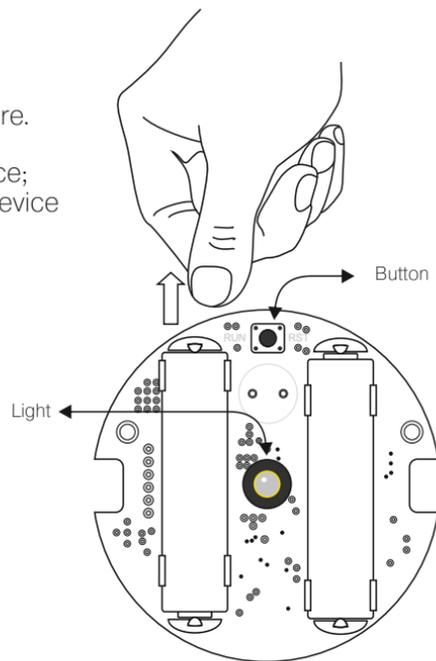
Take the room sensor out of the box, and move its lid off.

Remove the pull to start tab for activating the battery, as shown on the picture.

Take the room sensor to the central heating boiler, and push the button once; When the button is pushed, the blue light starts blinking, which means the device is ready for configuration option.

At this moment push the button on process control block (PCB) in the central heating boiler once so that the **Status** light starts blinking.

During this activity the configuration parameters are exchanged between the process control block (PCB) and the room sensor. After the configuration is successfully completed, the green light will blink three times on the room sensor. If the configuration is successfully complete, push the button again.



If the configuration is NOT successfully complete, push again the button on the process control block (PCB) and the room sensor.



**CAUTION:** While replacing the battery, press the PCB with a finger of one hand and use another hand to carefully take the battery out, without damaging the device.



Use only Lithium FR6 or Alkaline LR6 batteries, preferably, Energizer or Duracell.

When the room sensor is all set up, make sure that **AP-Status** and **Status** lights on process control block (PCB) are permanently ON, without blinking.

Only when **AP-Status** and **Status** lights are permanently ON, close the central heating boiler and switch it on.

## A GUIDE TO OCCASIONAL PROBLEMS AND HOW TO SOLVE THEM

**AP-Status light is blinking:** This signals that the process control block (PCB) cannot connect to your home Wi-Fi router. In this case, the process control block (PCB) must be restored to its factory state.

**How to Perform a Factory Reset on the Process Control Block (PCB):** Hold down the button on process control block (PCB) for 10 seconds until the **AP-Status** and **Status** lights start blinking fast. Then let the button go – and this way the device will be factory reset. Open the application on your mobile phone, choose “**Configuration**” and follow the instructions on your phone.

**How to Perform a Factory Reset on the Room Sensor:** Hold down the room sensor button for 10 seconds until the red light starts. Let the button go – and the blue light will start blinking. This way the device will be factory reset. Open the application on your mobile phone, choose “**Configuration**” and follow the instructions on your phone.

**How to Reset Password on Wi-Fi Router:** In case of resetting the password, the process control block (PCB) must be **factory reset**.

# TECHNICAL SPECIFICATIONS

Dimensions: Room Sensor (83.5 mm x 26.5 mm)  
Process Control Block (PCB) (82 mm x 53 mm)

Communication: Wireless Internet (Wi-Fi 802.11b/g/n @ 2.4GHz, 5GHz 802.15.4 @ 2.4GH)  
Room Sensor and Process Control Block (PCB) are connected to each other by means of Wi-Fi Unlike to other thermostats, this one does not need an additional router because both modules use the home wireless Internet

Sensors: Temperature Sensor (-40°C to +120°C)  
Temperature Feeling (+/-0.01°C)  
Humidity Sensor (0 up to 100% RH)  
Humidity Feeling (+/-0.04% RH)

Power Supply: Room Sensor (2x AA batteries; will run for a year)  
Process Control Block (PCB) (Supplied with power from the central heating boiler)

Compatibility: Wi-Fi Internet connection is mandatory  
Compatible to 90% of the central heating boilers used in Georgia

Application: Thermostat is controlled through applications iOS, Android, Web (Safari, Chrome, Firefox). Communication to the room sensor is held only through the application. Control is possible from several devices at the same time.

Warranty: 2-year

Whether you need a technical support, or simple advices,  
Feel free to contact us.

Sincerely,  
Alien Green team



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