

SMART LIVING

USER MANUAL THERMOSTATS



OPERATING THE THERMOSTAT

Status & information

A Smart Living thermostat has four different statuses. A status determines how the thermostat works. The 4 statuses available on the thermostat are: Auto, Away, Manual and Off.



Auto

The thermostat follows a set time schedule for that particular day.



Manual

The thermostat is active and works towards the desired temperature. No schedule is used. The desired temperature is adjusted only when changed manually.

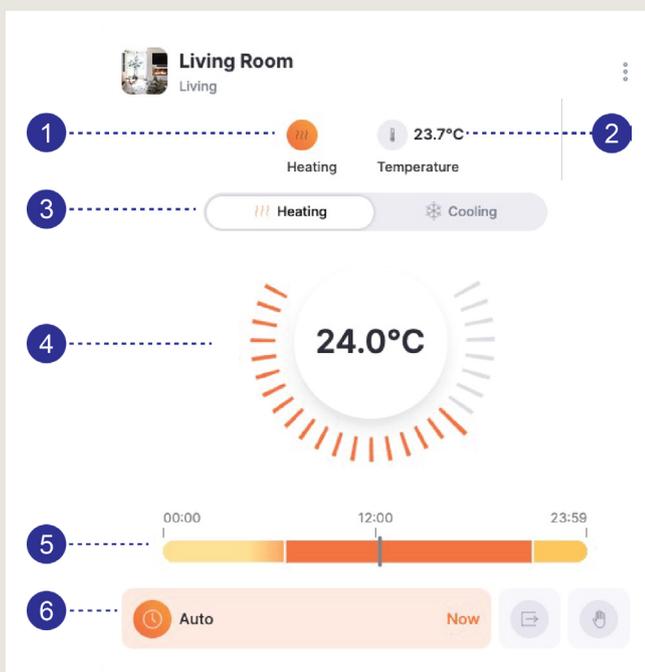


Away

This status can be used when a reduced temperature is needed for a period of time, e.g. in case of absence due to holidays.

Off

The thermostat is switched off and will not work until switched on again.



The thermostats contain the following information:

1. The current status of the thermostat: if coloured in, the thermostat is in operation. The thermostat may be in 'heating' mode, but if the desired temperature is higher than the measured temperature already, the thermostat will not actively request heat.
2. The current (measured) temperature. e.g. 21.7°C
3. Ability to switch between heating and cooling. **Note:** If there is no cooling in the installation, the option is not displayed
4. The desired temperature are displayed centrally.
5. The bar displays the schedule (when auto mode is used).
6. Push the status button to switch between statuses (auto/away/manual).

OPERATING THE THERMOSTAT

Via the Renson One app (smartphone) or Renson One portal

You can control your thermostat via the Renson One app. The app can be downloaded for free on your Android or iOS smartphone or tablet. In addition, you can also control the thermostat via a computer at <https://cloud.renson.eu>.

For both options, you will find the thermostats under the Room view or under the Thermostats category. You can then change the requested temperature on the thermostat or change the status (auto/away/manual/off).

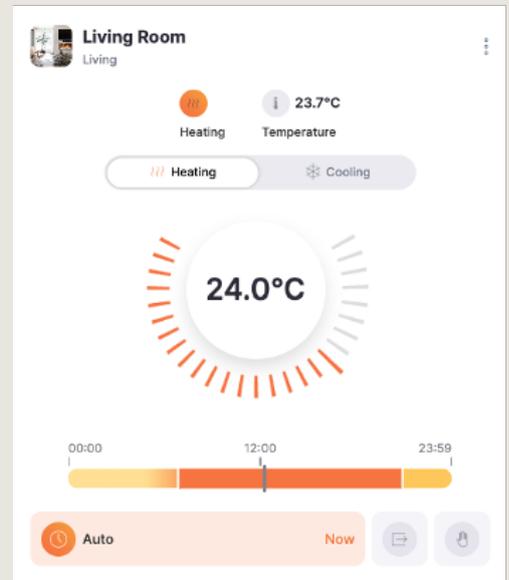
You can add a thermostat to the dashboard (the first screen/homepage) both in the app and on the portal, making it available quickly.

Change status (auto/away/manual)

- The different statuses are displayed with an icon at the bottom of the thermostat.
- The active status is coloured in (in the adjacent example, 'Auto' is active, meaning that the requested temperature changes according to the schedule).
- Select the status you want to apply.

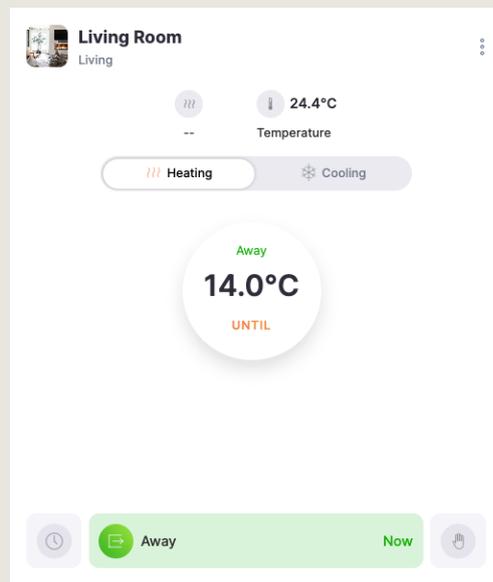
Change the requested temperature

- You can adjust the requested temperature when in Auto or Manual.
- To do this, click on the lines around the central circle with requested temperature.
- If the thermostat status is **Auto**, the requested temperature defaults to the schedule at the start of the next time block in the schedule. You can change this by pushing the UNTIL button that appears when the requested temperature differs from the temperature in the schedule.
- If the thermostat status is **Manual**, the temperature will remain that way until you make another adjustment yourself



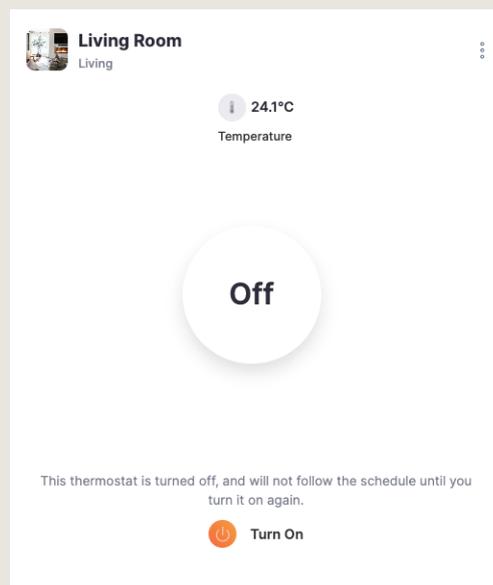
Away: reduce temperature during prolonged absence

- When the thermostat is set to Away, it is set to the away temperature.
- The Away status remains active until the status is changed.
- By setting an end date and time via the UNTIL button, the thermostat will return to its previous state (auto or manual) at the specified end date and time. The thermostat then returns to the status it was in before being set to Away. When you are on holiday for a week, for example, you can get your thermostat to turn back on a little earlier to ensure your home is warm by the time you return.
- If you want to adjust the away temperature, go to the 3 dots at the top right of the thermostat and choose 'configure schedule'. You can adjust the away temperature from here.



Switching the thermostat off and back on

- The thermostat can be switched off using the three dots on the top right.
- From there, choose 'Turn off'.
- You will now only see the measured temperature on your thermostat, and the option to turn it back on.
- Turn the thermostat back on by pressing 'Turn on' at the bottom or using the three dots to select 'Turn on'.



Change time schedule (status: Auto)

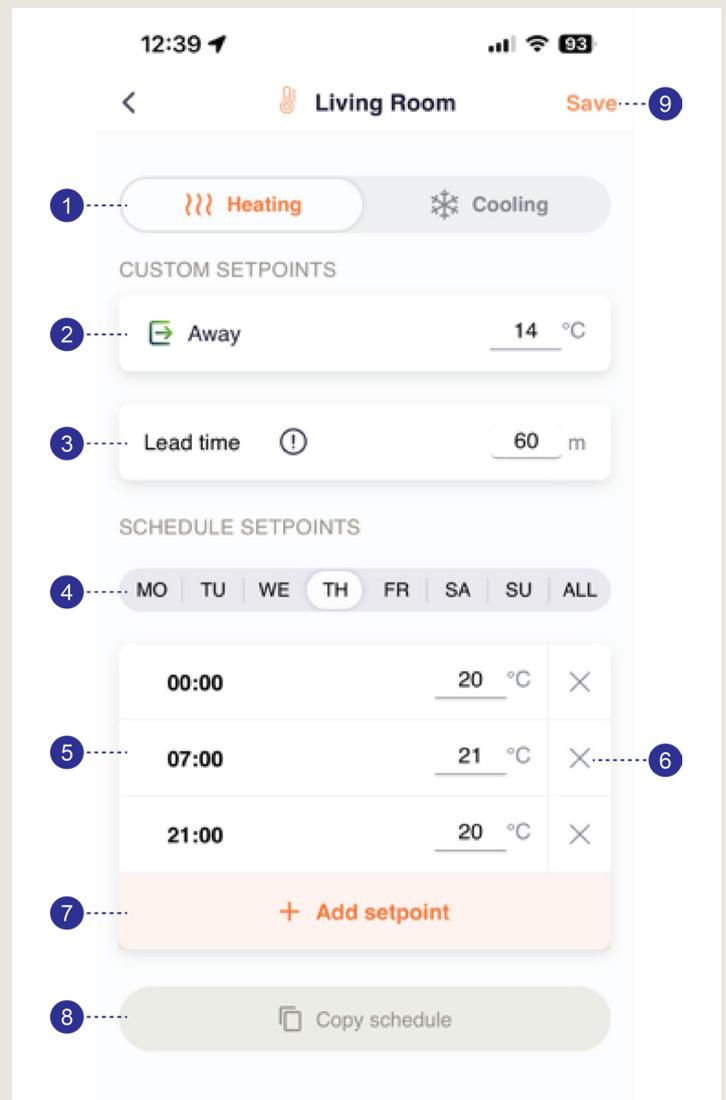
It is always possible to adjust the applied time schedule in the Auto status. This can be done for a specific day or for all days. The schedule can be set per thermostat.

The time schedule consists of several time blocks for which a desired temperature is specified.

Configure the time schedule as follows:

Click on the 3 dots in the top right, and choose 'Configure Schedule':

1. You can set a schedule for Heating or for Cooling by selecting one of the two at the top.
2. Set the away temperature.
3. Indicate on the schedule what temperature you want and when. The Lead time is the number of minutes the thermostat will turn on before the requested time in the schedule to reach the target temperature at the time set in the schedule. For example: the schedule is set to request 21° at 7:00, with 60 minutes lead time; the thermostat will start heating to 21° at 6:00.
4. The schedule can be set per day, or you can set 1 schedule for all days (by selecting ALL on the right-hand side of the row).
5. Set the times and requested temperature in the schedule.
6. You can remove times from the schedule by pressing the cross.
7. Adding new times to the schedule can be done by clicking 'add setpoint'. Enter the desired time and temperature.
8. You can copy the schedule to other days, or to other thermostats by pressing 'Copy schedule'.
9. Save your changes by clicking Save.



OPERATING PRINCIPLES OF THERMOSTATS

- Depending on the type of installation in your building, it will be possible to heat, cool or both.
- Thermostats set to heat will stop heating once the desired temperature is reached (upper limit).
- Thermostats set to cool will stop cooling once the desired temperature is reached (lower limit).
- If the system supports both heating and cooling, a separate schedule is defined for both.
- The system can only heat OR cool, not both at the same time.
- A setpoint is a specific desired temperature value at a specific time. Once a setpoint is activated, the system will maintain that temperature in the room until another setpoint is selected. This can be done automatically (via the schedule) or manually (via thermostat controls).
- The system uses the sensor value, set schedule and lead time to determine whether the valve (or other A/C unit) should be opened/activated or closed/deactivated to maintain the requested temperature.
- The lead time is taken into account, causing the thermostat to start operating earlier in order to reach the requested temperature in the requested time block. It is applied
 - to 'heating': when the requested temperature of the next time block is higher than the time block before it. Suppose the schedule is set to request 20°C from 21:00 and 21°C from 7:00. A 60-minute lead time will only be applied in the morning, so the thermostat will switch on as early as 6:00 to reach 21°C. There will be no lead time at 21:00, since the requested temperature is lower.
 - to 'cooling': when the requested temperature of the next time block is lower than the time block before it.
- If your user account has access to a room with at least 1 thermostat, you can control that thermostat.

This documentation is valid from the following versions:

- App software 4.1.0. and higher
- Cloud software 3.8.0. and higher

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