

tado°

Smart Thermostat



User Guide



WELCOME



GET STARTED



OR



Self-installation

Get customised step-by-step instructions for your specific heating system online

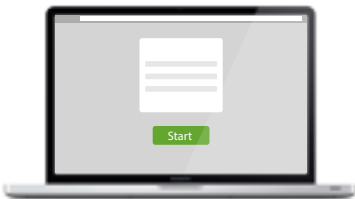
Professional Installer

Book / schedule appointment or activate installed devices



Create account at

tado.com/installation



Self-installation

1

Create Account

2

Add Devices to Account

3

Select Heating Setup

4

Install with Custom Online Step-by-step Instructions

Professional Installer

1

Create Account

2

Add Devices to Account

3*

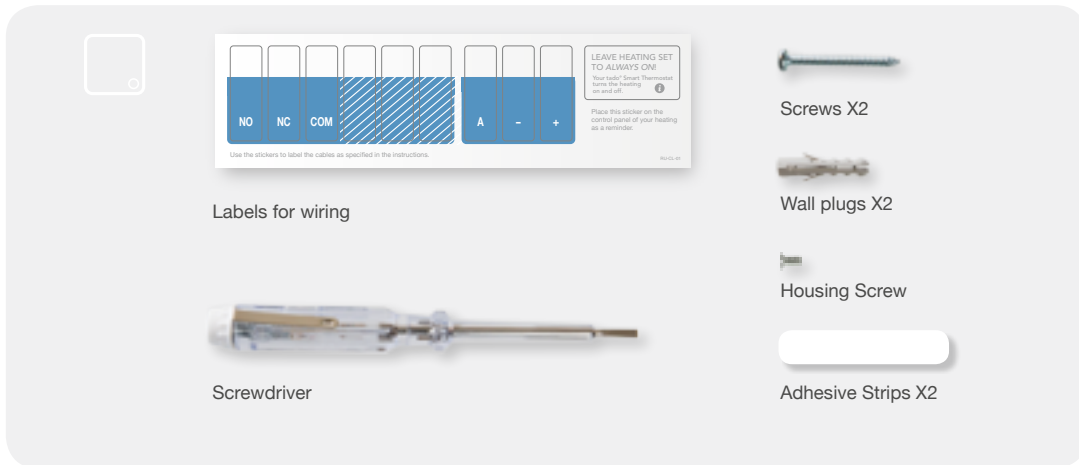
Select Heating Setup*

4*

Book / Schedule appointment*

* Not needed if device is already installed.

ACCESSORIES

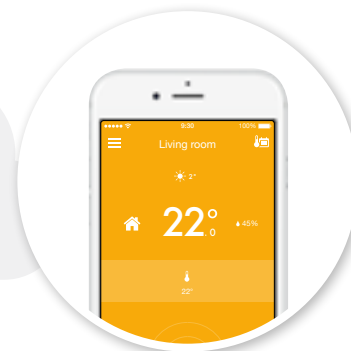


THE SMART THERMOSTAT & THE APPS



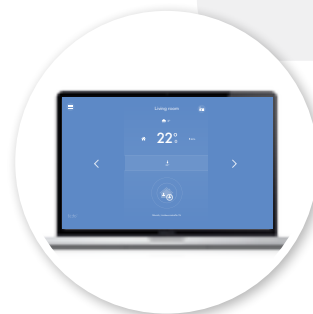
Smart Thermostat

The Smart Thermostat is placed in your living space. On the device you can check the current temperature and change settings.



Mobile App

The mobile app tells the Smart Thermostat where you are, displays the temperature at home and lets you change any settings from wherever you are.



Web App

You can also access your tado° system and all settings by signing in via any web browser at tado.com/login

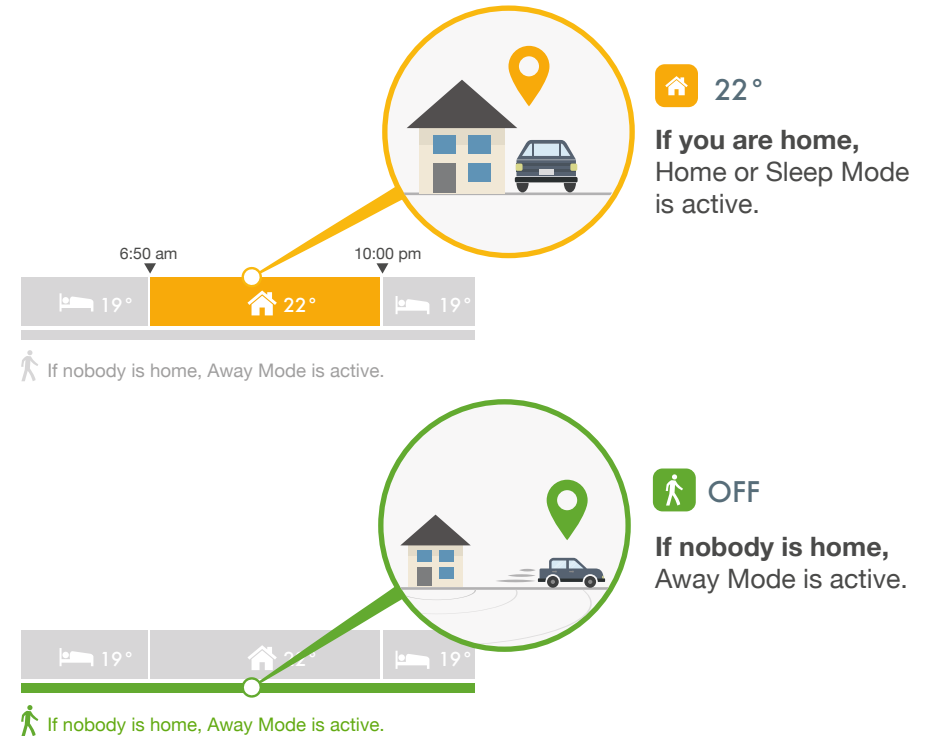
LOCATION-BASED CONTROL

tado° uses the location of residents' mobile devices to turn down the heating when everybody is away and turn it on when somebody is home, automatically. You can choose the corresponding temperatures in the Smart Schedule.



SMART SCHEDULE

Choose which settings should be active when somebody is home. Since the schedule is smart these settings only become active if at least one person is at home.



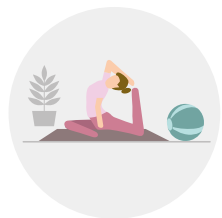
SMART SCHEDULE – HOME AND SLEEP MODES

You can keep it simple and just set the temperatures for the tado° default modes (Home, Sleep and Away) or you can create additional modes for different activities.



TV Evening

23°



Weekend Workout

20°

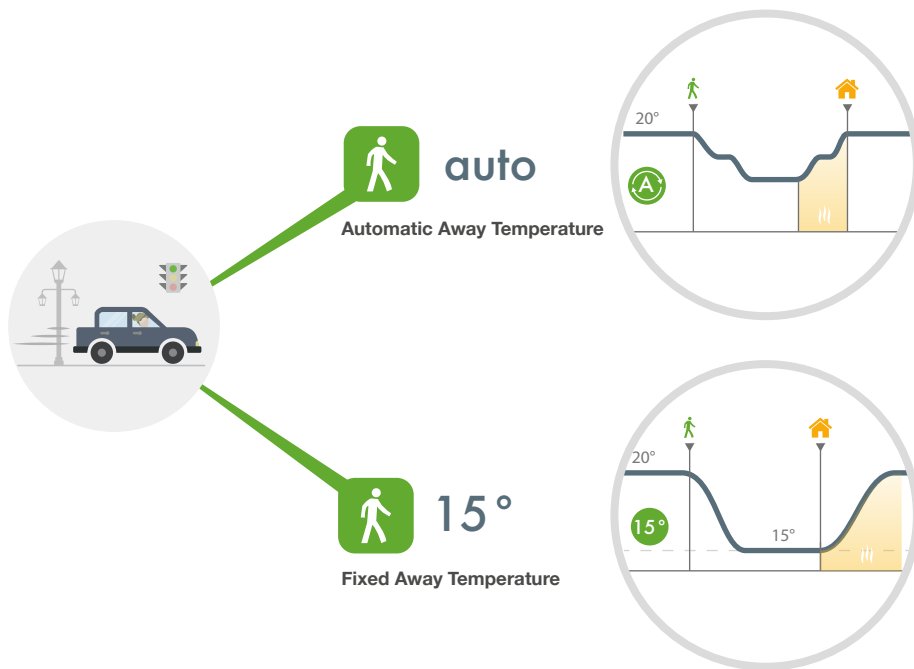


Bedtime

19°

SMART SCHEDULE – AWAY MODE

The Away Mode automatically becomes active when nobody is at home. There are two options: an **automatic Away Temperature** to let tado° compute the most energy-efficient temperature and automatically heat up before you arrive. Alternatively you can set a **fixed Away Temperature**.



SMART SCHEDULE – TYPICAL DAYS



Tom and Laura
enjoy the comfort
with tado°



Sleep 19°

Tom and Laura have set the Sleep Mode temperature to 19°C - their preferred night temperature.



Home 22°

They only use one Home Mode, so whenever one of them gets home during the day, tado° will heat to 22°C.



Away auto

They have chosen the automatic Away Temperature. When everybody is away tado° computes the ideal, most energy efficient temperature. This saves energy while providing the comfort of coming back to a warm home.



The Taylors
have a child without
a smartphone



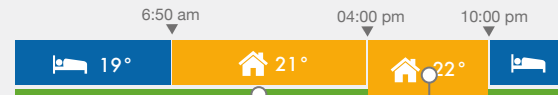
Away 16°

With a fixed Away Temperature set, tado° lets the temperature drop down to this level when nobody is home and does not start heating until somebody gets home.



Kids at home 22°

For this time block Location-based Control is turned off. This way tado° heats up to the 22°C for this mode - no matter where the residents are, because their child does not have a smartphone.



Location-based Control



MANUAL CONTROL

Adopt the current settings anytime without changing the Smart Schedule.



Manual Control panel in the mobile app.



Changing any setting on the device activates Manual Control.

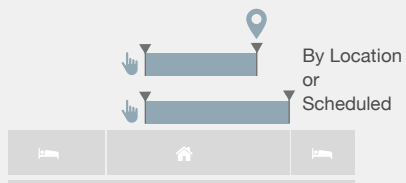
MANUAL CONTROL

Choose the duration of the Manual Control:



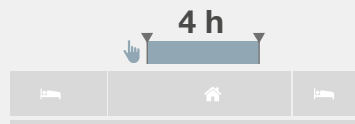
Until Next Mode Change

Manual control remains active until the next time block in the Smart Schedule, or until residents leave or arrive.



Timer

Remains active for the selected time span.



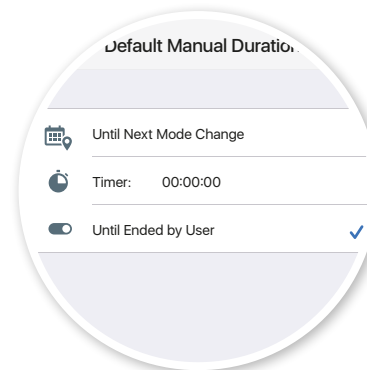
Until Ended by User

Remains active until a user ends the Manual Control Mode.



MANUAL CONTROL – DEFAULT DURATION

Choose the default duration for Manual Control on the device in the app settings.



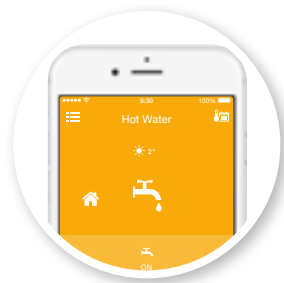
Set the default duration for the device in the app settings.



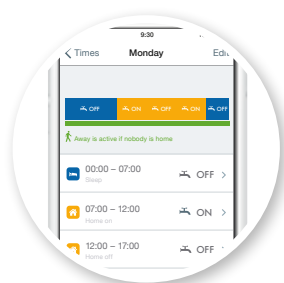
Any setting change set on the device will always use the default duration.

HOT WATER CONTROL*

For certain heating systems tado° can also control the hot water*. Learn more at tado.com/support



On the hot water main screen you can see if hot water is turned on.



The hot water preparation has its own Smart Schedule. For certain digital systems you can even define the hot water temperature.



You can also temporarily override the schedule with the Manual Control.

* Hot Water control is only available if supported by the heating system

REPORT

The report shows the temperatures measured, when tado° was in Home, Away or Sleep Mode, when there was a call for heat or hot water, and when the sun may have affected the room temperature. You can access the report from your mobile devices or the web app.



MOBILE APP – MAIN SCREEN

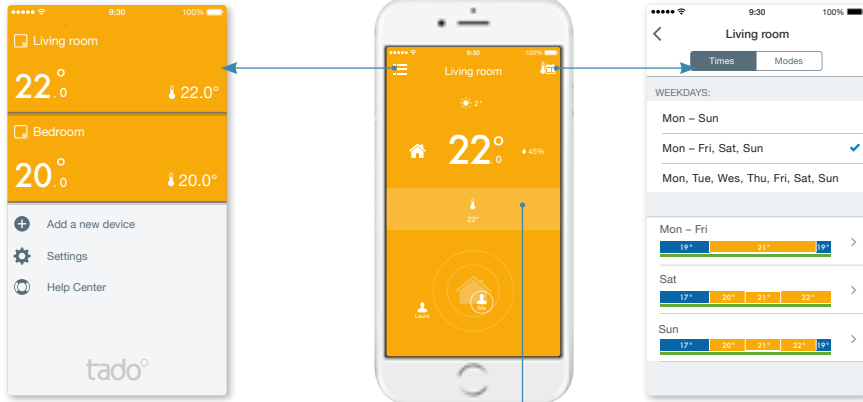


MOBILE APP – SWITCH BETWEEN ZONES



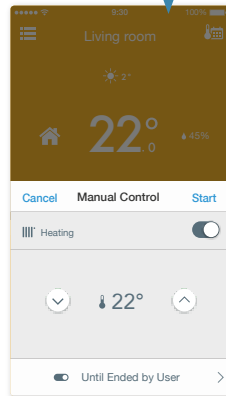
If you have multiple Smart Thermostats for multiple zones, or if your heating system supports hot water control, you can switch between the different zones by swiping to the left or right.

You can also use tado° via the web app with a web browser on your computer, tablet or smartphone.



Zone Overview

Shows all zones with their current state, allows you to add new devices and provides access to settings and the Help Center.

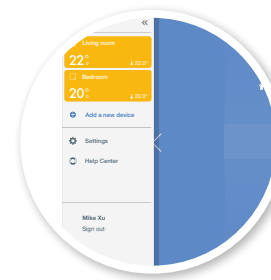


Smart Schedule

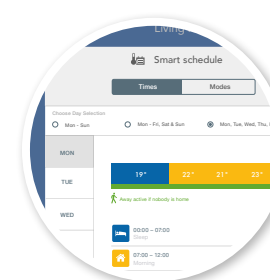
Set time blocks and modes with different temperatures and settings.

Manual Control Panel

Change settings at any time without changing the Smart Schedule.



Zone Overview



Smart Schedule



Manual Control

SMART THERMOSTAT



LED Matrix Display
Shows current information and settings

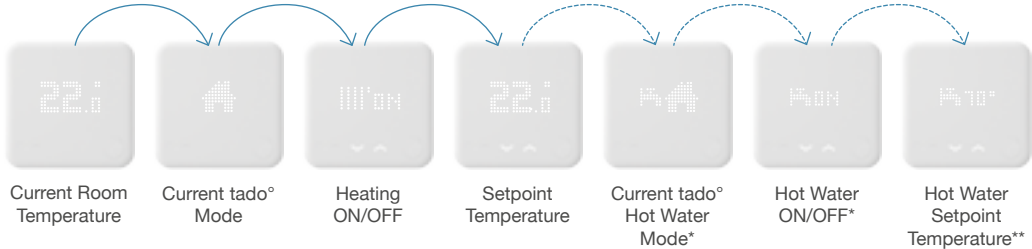
Touch Arrows
To change temperatures and settings (arrows only appear if you can change something)

Push Button
To activate the display and move to the next screen or also to confirm the selection

SMART THERMOSTAT – THE MENU



Press the button to activate the display and flip to the next page



* Hot Water control is only available if supported by the heating system
**Hot Water temperature only available if supported by the heating system

SMART THERMOSTAT – CHANGE SETTINGS



Touch the up or down arrow to change the desired temperature, or to turn the heating on or off.



All setting changes on the device activate Manual Control and will be active for the default duration set in the settings (see page 13).

Confirm



Switch to next menu page

or



Wait for the flashing to begin


















SMART THERMOSTAT – END MANUAL CONTROL





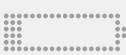




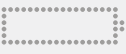




To end Manual Control and go back to the Smart Schedule press the arrows when the manual icon is displayed -the current smart schedule mode is then displayed and activated.

DISPLAY ELEMENTS

HEATING		
 Current Room Temperature	 Home Mode	 Sleep Mode
 Away Mode	 Manual Control	 Setpoint Temperature
 Heating ON	 Heating OFF	
HOT WATER (only if supported by the heating system)		
 Home Mode	 Sleep Mode	 Away Mode
 Manual Control	 Hot Water OFF	 Hot Water ON
 Hot Water Temperature (only if supported by the heating system)		

SPECIAL STATES

PAIRING & RESTART			
 Start	 Not Paired	 Pairing...	 Pairing Successful
FLASH NOTIFICATIONS			
Flashes once when the display is activated.			
 Low Battery	 Firmware Updating	 Legionnaires' Disease Protection	 Sync Error (recent changes not yet transmitted)
BLOCKING NOTIFICATIONS			
 Not Configured	 Empty Battery	 Depleted Battery (display cannot be activated anymore)	 Configuration Download

TECHNICAL SPECIFICATIONS

ERP CLASS

Smart Thermostat

Model: RU01
Dimensions: 104 x 104 x 19 mm (L x W x H)
Weight: 132g
Operating voltage: 5-36V DC (SELV) 0.2A fused
Batteries: 4.5V DC 3xAAA (LR03) 1200mAh
Battery Life (when operating on batteries) : ~ 2 years
Relay: max. 240V AC 6(4)A / max. 36V DC 6(4)A
Terminal block screw tightening torque: 0.5Nm
Radio: 868 MHz, Mesh (6LoWPAN)
Display: 10 x 19 LEDs, 32 x 20 mm
Buttons: 1x Mechanical; 2x Capacitive Touch
Material: PC + ABS
Colour: white, matte
Mounting: Wall mounted

Bridge

Model: GW03
Dimensions: circa 89 x 52.5 x 25.5 mm (L x W x H)
Weight: circa 61g
Operating voltage: 5 V (USB)
Radio: 868 MHz, Mesh (6LoWPAN)
Display: 3x LED
Material: PC + ABS
Colour: white, matte

Operating Restrictions

Altitude: max. 2000m above sea level
Ambient Temperature: 0-40°C
Level of pollution: 2
Humidity: max. 85% relative humidity

Additional Characteristics

Overvoltage category 2
Type 1 action
Type X attachment

Transportation Conditions

Ambient Temperature: -10°C to +50°C
Rel. Humidity: 5% to 85% (non-condensing)

Manufacturer

tado GmbH
Lindwurmstr. 76
80337 Munich
Germany

EU Declaration of Conformity



This device is in compliance with the essential requirements and other relevant provisions of the following EU Directives:

- LVD Directive 2014/35/EU
- EMC Directive 2004/108/EC
- R&TTE Directive 1999/5/EC
- RoHS Directive 2011/65/EU
- ErP Directive 2009/125/EC

A copy of the EU Declaration of Conformity is available at: [tado.com/conformity](https://www.tado.com/conformity)



The **WEEE symbol** means that a device must be disposed of separately from general household waste. When a device reaches the end of its lifespan, it must be taken to a designated waste collection point for safe disposal or recycling.

This conserves natural resources, protects human health and helps the environment.

The information in the table below is required for the completion of the Energy Related Product (ErP) Directive System Package fiche and the ErP system data label according to ErP Directive 2009/125/EC.

Supplier	Model	ErP Class	Function and ErP description	Additional seasonal space heating efficiency gain
tado°	Smart Thermostat	IV	TPI room temperature control (on/off output heaters) tado° is connected to an on/off output heater. The proportional, integral and differential values of the temperature readings are used to cycle on and off the heater.	+2%
tado°	Smart Thermostat	VI	Room temperature control with weather compensation (modulating heaters) tado° is connected to a modulating heater. The heater may have an outside temperature sensor but is not required. tado° uses remotely obtained outside temperature readings to modulate the flow temperature of the heater. tado° monitors the room temperature and includes the reading in the modulating control of the heater.	+4%
tado°	Smart Thermostat	VII	Room temperature control with weather compensation (on/off output heaters) tado° is connected to an on/off output heater. The heater is connected to an outside temperature sensor which adjusts the flow temperature according to outside temperature readings. tado° monitors the room temperature and cycles the boiler on and off.	+3,5%
tado°	Smart Thermostat	VIII	Room temperature control with multiple sensors (modulating heaters) At least three Smart Thermostats are connected to a modulating heater. tado° measures an individual room temperature per Smart Thermostat and modulates the flow temperature of the heater according to deviation from setpoint.	+5%

When the Smart Thermostat is installed in combination with the Extension Kit, the same classes apply.

ELECTRICAL SAFETY INFORMATION



Only use the included USB power adapter and arrange the device so that the plug for the power socket is easily accessible at all times and the device can be easily disconnected from the mains.



Before connecting the USB power adapter to mains, compare the nameplate information on the USB power adapter with the local voltage and frequency characteristics. Only connect the USB power adapter if the characteristics match.



Carry out a full visual inspection of the USB power adapter, power cable and plug, as well as the ground contacts connecting and/or operating the device. Damaged power adapters, cables or plug connectors must be replaced immediately by an authorised person.



The product is to be used exclusively for non-safety-related control functions and may only be installed by qualified electricians.



Batteries may explode or leak, and cause burn injury, if recharged, disposed of fire, mixed with a different battery type, inserted backwards or disassembled. Replace all used batteries at the same time. Do not carry batteries loose in your pocket or purse. Do not remove the battery label. Keep batteries away from children. If swallowed, consult a physician at once.



Problems or questions?
tado.com/support

