

Sockets thermostat TC-500 Wifi

Thank you for choosing our smart
socket outlet thermostat TC-500 Wifi



Features:

- Programmable / operable via app
- Compatible with Amazon Alexa, Google Assistant and IFTTT
- Easy to install
- Simple 3-button operation
- Heating and cooling mode
- Integrated heat pump protection
- Simply structured display

Technical data:

- Operating voltage: 230Vac
- Switching capacity: 3600W/16A (resistive load) /3A capacitive load
- Backup memory: EEPROM
- Temperature sensor: internal or external sensor
- Temperature setting: 5°C - 35°C (Standard value: 28°C)
- Operating temperature: +5 ~ 65°C
- Accuracy: +/- 0.5°C (+/- 1°F)
- Dimensions: 70 x 41.5 x 140mm
- Colour: White
- IP protection class: 20 (Sensor IP44)
- Certification: CE

App integration and programming:

In order to setup or program the thermostat via Smartphone App, the free TuyaSmart App must first be downloaded and installed from the respective App Store.

Minimum Smartphone requirements: iOS9 or newer, Android 4.1 or newer

TuyaSmart (Tuya Inc.)



[App für Android](#)



[App für Apple iOS](#)



The following steps show the setup of the TuyaSmart App as well as the integration and programming of the thermostat.

| | | |
|--|---|---|
| <p>1</p> | <p>2</p> | <p>3</p> |
| <p>When starting the app for the first time, you have to create a Tuya user account.</p> | <p>Agree to privacy policy to continue.</p> | <p>Select your country, enter your email address, and then tapping on "Get Verification Code". Alternatively, the code can also be requested by SMS by tapping on "Mobile Phone Number" at the top.</p> |



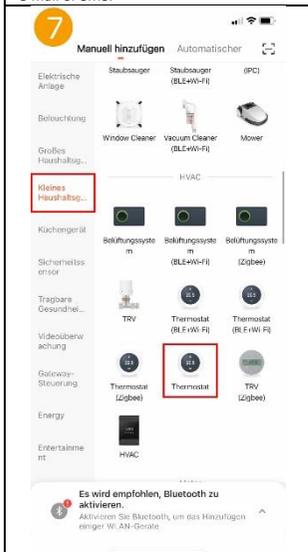
Enter the verification code you received by e-mail or SMS.



Set the password for the Tuya user account and press "Finish".



Now the thermostat can be integrated by touching "Add device".



To integrate a thermostat, tap on "Small Home Appliance" on the left and then select "Thermostat" or "Thermostat (Wi-Fi)" on the right. **Do not select Bluetooth, Zigbee, BLE+Wi-Fi!**



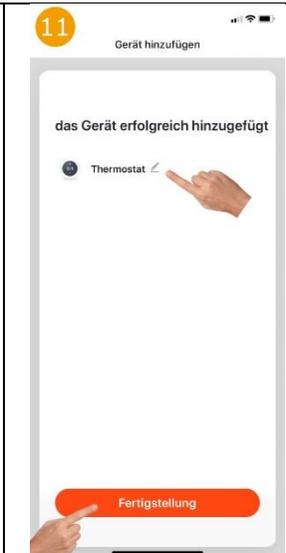
Select the WLAN network (SSID) of the existing router and enter the corresponding WLAN password.



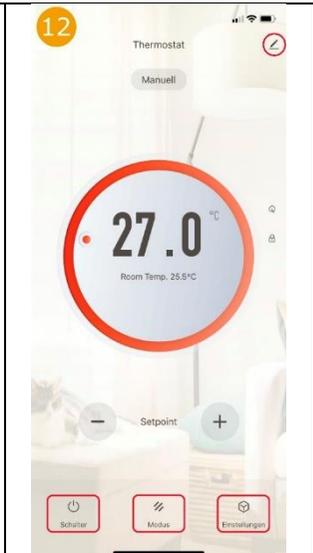
Set the thermostat to teach-in mode: Press the on/off key on the thermostat for approx. 3 seconds until "11" appears on the display (if necessary, unlock the keys first). Now briefly press the "+" key, the "11" should now flash and the thermostat is in teach-in mode. Now in the app first tap on "Confirm indicator rapidly blink" and then on "Next".



The app now searches for devices that are in learning mode.



If a device was found, a name can now be assigned. After touching "Done", the integration of the thermostat is successfully completed.



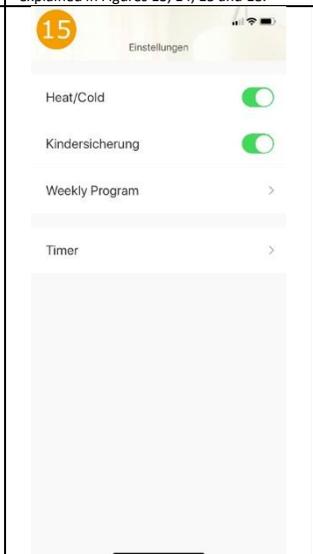
The picture shows the main view of the thermostat. The setpoint temperature is shown in the centre of the display and the current room temperature is shown below. The setpoint temperature can be adjusted manually using the plus/minus key. The functions of the buttons "Switch", "Mode", "Settings", "Pen symbol" are explained in Figures 13, 14, 15 and 18.



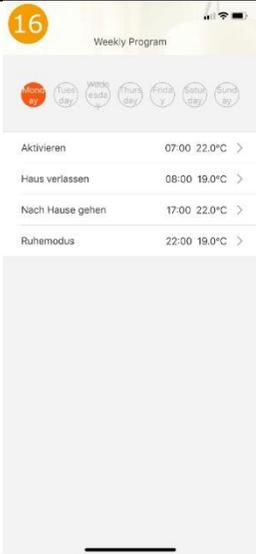
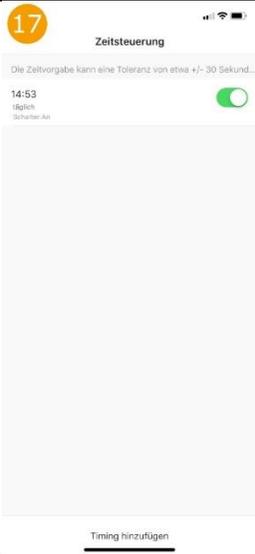
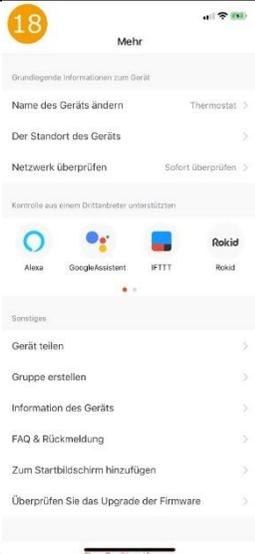
The thermostat can be switched on or off by touching "Switch".



Touch "Mode" to change the operating mode of the thermostat (Auto/Manual).



Touch "Settings" to set the heating/cooling mode, the childlock, the weekly programme (figure 16) and the timer (figure 17).

| | | |
|--|---|---|
|  <p>16 Weekly Program</p> <p>Monday Tuesday Wednesday Thursday Friday Saturday Sunday</p> <p>Aktivieren 07:00 22.0°C ></p> <p>Haus verlassen 08:00 19.0°C ></p> <p>Nach Hause gehen 17:00 22.0°C ></p> <p>Ruhemodus 22:00 19.0°C ></p> |  <p>17 Zeitsteuerung</p> <p>Die Zeitvorgabe kann eine Toleranz von etwa +/- 30 Sekund...</p> <p>14:53 14:53 14:53 Scharler, An</p> <p>Timing hinzufügen</p> |  <p>18 Mehr</p> <p>Grundlegende Informationen zum Gerät</p> <p>Name des Geräts ändern Thermostat ></p> <p>Der Standort des Geräts ></p> <p>Netzwerk überprüfen Sofort überprüfen ></p> <p>Kontrolle aus einem Drittanbieter unterstützen</p> <p>Alexa GoogleAssistant IFTTT Roku</p> <p>Sonstige</p> <p>Gerät teilen ></p> <p>Gruppe erstellen ></p> <p>Information des Geräts ></p> <p>FAQ & Rückmeldung ></p> <p>Zum Startbildschirm hinzufügen ></p> <p>Überprüfen Sie das Upgrade der Firmware ></p> |
| <p>An individual heating profile can be stored here for each day of the week.</p> | <p>Here, different timers can be programmed to switch the timer on or off.</p> | <p>Shows the further settings and integration possibilities in the language control systems Amazon Alexa and Google Assistant.</p> |

Manual setting / programming:

To enter the setting menu, press and hold the "+" and "-" keys for approx. 4 seconds while they are switched off (no display).

You can switch between the different setting levels by repeatedly pressing the On/Off key (centre key). You can change the values of the respective setting with the "+" and "-" keys.

The following setting options are available:

| Nr. | Funktion | Einstellbereich | Standartwert |
|-------|---|--------------------------|--------------|
| 01 | Temp. Calibration (calibration of the temperature sensor) | -9°C - +9°C | 0°C |
| 02 | Mode (heating or cooling mode) | 0 = Cooling, 1 = Heating | 0 = Cooling |
| 03 | Sensor Mode (External, or room sensor) | 0 = Room, 1 = External | 1 = External |
| 04 | Dead Band / Hysteresis (Switching temperature range) | 0.5 bis 9 °C | 0.5 °C |
| 05 | Heat pump protection | 0 = Aus, 1 = An | 1 = An |
| 06 | Mode Select (PRG = Automatic, MAN = Manuel) | 0 = MAN Mode, 1 = PRG | 0 = MAN Mode |
| 07 | Lock/Unlock (Key lock) | 0 = Unlock, 1 = Lock | 0 = Unlock |
| 08 | Reset (Reset to factory settings) | 0 = No, 1 = Yes | 0 = No |
| 09/10 | Software Version (Not changeable) | - | - |

The configuration menu is left automatically after approx. 10 seconds without an entry.

Release the key lock:

To release the key lock (display shows only 7), press and hold keys "+" and "-" simultaneously for about 4 seconds.

The heat pump protection:

If the heat pump protection is activated, the thermostat switches the connected device on for approx. 30 seconds every 11 hours, regardless of the set temperature.

Description Display indications:

The display shows the current room temperature in the centre (depending on the setting of the internal/external sensor). In addition, the following modes are displayed, provided they are active:

| | | |
|--|------------------|---|
| | 1 | = Heating mode |
| | 2 | = Cooling mode |
| | 3 | = Heat pump protection On |
| | 4 | = Heat pump protection Off |
| | 5 | = Use of external temperature sensor |
| | 6 | = Use of internal temperature sensor |
| | 11 | = Connected with WLAN |
| | SET | = Flashes when setting the target temperature |
| | Wavy line icon | = Symbol visible = consumer on |
| | Two square icons | = Auto (weekly programme) active |

Disposal notes



Do not dispose of this device in household waste! Electronic devices must be disposed of at the local collection points for electronic waste in accordance with the Waste Electrical and Electronic Equipment Directive.

Note on conformity



The CE mark is a free trade mark that is exclusively addressed to the authorities and does not contain any assurance of properties.

Dokumentation © 2020 **Mi-Heat Heizsysteme GmbH**

All rights reserved. No part of this manual may be reproduced in any form or by any means without the written permission of the publisher. This manual may contain typographical defects or misprints. We assume no liability for technical or printing errors and their consequences.

V1.1 (11/2020)

Mi-Heat Heizsysteme GmbH

O1 Streek 39a

26607 Aurich

Germany

Internet: mi-heat.com

E-Mail: info@infrarot-fussboden.de