



GB Operating Instructions

Wi-Fi Thermostat

Item no: 3026090



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1 Product documentation



The product is documented by different sets of instructions:

- Installation instructions
- Operating instructions (for download only)

Use the link www.conrad.com/downloads (alternatively scan the QR code) to download the instructions (or new/current versions if available). Follow the instructions on the web page.

2 Intended use

The product is a Wi-Fi thermostat for fixed indoor installation. The product is intended to control a mains operated load via temperature control.

The product can be controlled via touch display and the Tuya mobile app Smart Life/Smart Living.

The product is equipped with an internal and external sensor (probe). The external sensor can be used to measure the temperature in a different location to the thermostat, such as on the floor with an electric floor heating system.

The product is equipped with a backup battery to temporarily maintain the settings during power outages.

This device has an IP20 ingress protection rating and is suitable for dry rooms and indoor use. Contact with moisture, e.g. in bathrooms, must be avoided under all circumstances. The operating conditions shown in the "Technical data" must be strictly followed.

The product is intended for indoor use only. Do not use it outdoors.

Contact with moisture must be avoided under all circumstances.

If you use the product for purposes other than those described, the product may be damaged.

Improper use can result in short circuits, fires, electric shocks or other hazards.

The product complies with the statutory national and European requirements.

For safety and approval purposes, you must not rebuild and/or modify the product.

Read the operating instructions carefully and store them in a safe place. Make this product available to third parties only together with the operating instructions.

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3 Product features

■ Manual mode:

With the manual mode you have full control over the temperature settings.

■ Holiday mode:

The holiday mode controls the temperature over the period of your absence.

■ Program mode:

With the program mode, you can set temperatures for daily time slots for up to three work-week patterns: 5 day, 6 day and 7 day working week.

■ **Window-open mode:**

The window-open mode detects when a window is open and temporarily lowers temperatures to conserve energy.

■ **Mobile app control:**

Control and program the product via the built-in touchscreen or the Tuya mobile app over a Wi-Fi Internet connection. The product must only be controlled by persons that fully understand the consequences from controlling the connected device and the possible hazards.

4 Safety instructions



Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/guarantee.

4.1 General

- The product is not a toy. Keep it out of the reach of children and pets.
- Do not leave packaging material lying around carelessly. This may become dangerous playing material for children.
- If you have questions which remain unanswered by this information product, contact our technical support service or other technical personnel.
- Maintenance, modifications and repairs must only be completed by a technician or an authorised repair centre.

4.2 Electrical installation

WARNING! Safety hazard!

The product should only be installed by people with relevant electrical knowledge and experience! *)

If it is not installed properly, you risk:

- your own life
- the life of user of the electrical device
- severe damage to property, e.g., by fire
- personal liability for personal injury and material damage

Always consult an electrician!

*) Technical knowledge required to perform the installation:

For the installation, the following specialist knowledge is required in particular:

- The "Five safety rules": Disconnect from the mains; protect against accidental switch-on; ensure there is no voltage; earth and short-circuit; cover or protect adjacent live parts
- Use of suitable tools, measuring devices and personal protective equipment, where necessary
- Analysis of measurement results
- Use of electrical installation materials to meet the requirements for disconnection
- IP protection ratings
- Installation of electrical installation materials
- Type of power supply (TN system, IT system, TT system) and the corresponding connection criteria (classic earthing, protective earthing, necessary additional measures etc.)

If you are not a professional, do not do it yourself, have it performed by a specialist.

4.3 Operation

- Consult an expert when in doubt about the operation, safety or connection of the product.
- If it is no longer possible to operate the product safely, take it out of operation and protect it from any accidental use. DO NOT attempt to repair the product yourself. Safe operation can no longer be guaranteed if the product:
 - is visibly damaged,
 - is no longer working properly,
 - has been stored for extended periods in poor ambient conditions or
 - has been subjected to any serious transport-related stresses.

4.4 Connected devices

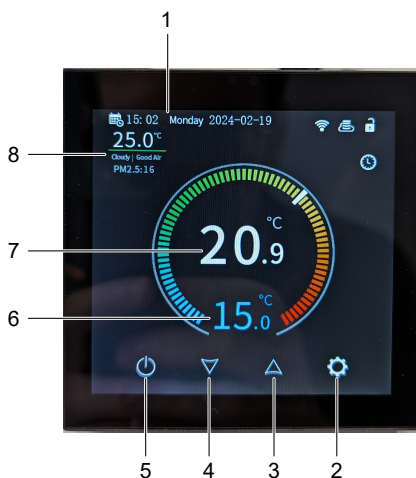
- Also observe the safety and operating instructions of any other devices which are connected to the product.

4.5 Battery

- Correct polarity must be observed while inserting the battery.
- The battery should be removed from the device if it is not used for a long period of time to avoid damage through leaking. Leaking or damaged batteries might cause acid burns when in contact with skin, therefore use suitable protective gloves to handle corrupted batteries.
- Batteries must be kept out of reach of children. Do not leave batteries lying around, as there is risk, that children or pets swallow them.
- Batteries must not be dismantled, short-circuited or thrown into fire. Never recharge non-rechargeable batteries. There is a risk of explosion!

5 Product overview

5.1 Product



	Component	Description/Function
1	Date and time	Manually set or internet date and time
2	Menu button	Open the settings menu
3	Menu navigation button	Navigate menu and make selections
4	Menu navigation button	■ Navigate the menu and make selections ■ Unlock the display
5	On/Off button	Switch the product on and off.
6	Set temperature	The currently set temperature
7	Actual temperature	Currently measured temperature by the sensor
8	Outdoor air indication	Displays outdoor air temperature and outdoor air quality retrieved from the Internet. Note: only works if the product is connected to the Tuya cloud. The locale is determined by the internet connection location.

5.2 Display symbols

Symbol	Indication
	The display is locked.
	Heating is in progress to reach the set temperature.
	Holiday mode: The product is controlled by the running holiday program.
	Manual mode: The product is controlled manually.
	Program mode: The product is controlled by a running program.
	Program mode (temporary manual mode): A running program is being manually and temporarily overwritten by a user.
	Window-open mode: A window is open. The window-open mode is activated.
	An alarm occurred. The details of the alarm are shown in the menu under Information > Alarm fault type .
	The product is connected to the Tuya cloud.
	The product is connected to Wi-Fi network.

6 Getting started

6.1 Switching the product on and off

1. Switch the product on by touching the display and then tapping the symbol 
→ The display lights up.
2. Switch the product off by touching the display and then tapping the symbol 
→ The display switches off.
→ The product no longer controls temperature.

6.2 Select language

Selecting a language changes the display and menu language.

1. Tap the button .
2. Go to General > Language selection.
3. Select the language and tap Confirm.

6.3 Setting date and time

There are two options to set the date and time. You can set the date and time manually or synchronize the Internet date and time by connecting the product to the Tuya cloud.

Setting date and time manually

1. Tap the button .
2. Go to General > Time Setting.
3. Set the date and time.
4. Save the settings with Confirm.

Synchronizing Internet date and time

1. Follow the instructions in [Connecting the product to the Tuya cloud using mobile app](#) [► 8].

6.4 Connecting the product to the Tuya cloud using mobile app

Connect the product to your local wireless area network (WLAN) and the Tuya cloud to control the product via the mobile app **Smart Life - Smart Living**.

Important:

The product can only be connected to 2.4 GHz Wi-Fi networks.

Preconditions:

- ✓ The TUYA mobile app "Smart Life - Smart Living" is installed on your mobile device.

1. Tap the button .
2. Go to General > Network Connect.
3. Select Yes.
4. Connect the mobile device running the mobile app to the WLAN network to which you will connect the product.
5. Open the mobile app.

6. Start a device search by tapping the button +.
7. Follow the on-screen instructions to add the product to the mobile app and connect the product to the WLAN.
 - If connected successfully, the display shows the WLAN connection symbol  and the cloud connection symbol .
 - You have connected the product to the Tuya cloud.
 - The Internet date and time are synchronized with the product.

6.5 Selecting a display standby mode

The display can be operated in different standby display modes.

Mode	Menu setting	Description
Always on	Screen On	The display remains on at reduced brightness.
Selective on	Screen Off	The display switches off, until it is activated again.

1. Tap the button .
2. Go to General > Standby Screen.
3. Select the mode and tap Confirm.
- The display activates the new standby display mode when the standby mode activates.

7 Manual mode

With the manual mode you have full control over the temperature settings.

7.1 Setting a fixed temperature range

By setting a fixed temperature range, you limit the temperatures that a user is able to set via the display or the mobile app. Example: after setting the highest permissible temperature to 20 °C, a user is unable to set a temperature value higher than 20 °C.

1. Tap the button .
2. Go to General.
3. Go to Mode setting.
4. Enable the manual mode by selecting Manual and confirming with Confirm.
5. Go to Advanced.
6. Set the upper temperature limit under Set upper temperature limit.
7. Save the settings with Confirm.
8. Set the lower temperature limit under Set lower temperature limit.
9. Save the settings with Confirm.
- Users are only be able to set temperatures within the lowest and highest permissible temperature limits.

7.2 Setting temperature values using the display

Set a temperature value which you want the product to maintain. You can only set the upper limit. The lower limit is preset via the settings menu.

Notes:

The possible highest temperature value is restricted by the lower and upper temperature limits. See [Setting a fixed temperature range](#) [▶ 9] for details.

Example: if the upper limit is set to 18 °C, the highest possible temperature value you can set is 18 °C.

1. Touch the display.
 2. Drag the temperature dial clockwise or counter-clockwise to increase/decrease the temperature.
 3. Tap the buttons  and  to fine-adjust the temperature in increment.
- The product will respond according to the new temperature value.

8 Window-open mode

The window-open mode detects when a window is open and temporarily lowers temperatures to conserve energy.

8.1 Configuring the window-open mode

Configure the window-open mode to your personal needs by setting a desired temperature to maintain and the activation duration. The duration setting controls for how long the temperature is lowered after an open window is detected.

1. Tap the button .
2. Go to **Advanced**.
3. Scroll to **Window opening setting time** and tap the time field.
4. Set for how many minutes the window-open mode shall be active and tap **Confirm**.
5. Scroll to **Window opening setting temperature** and tap the temperature field.
6. Set the temperature you want to maintain while windows are open and tap **Confirm**.

8.2 Enabling and disabling the window-open mode

After setting temperature and duration for the window-open mode, you can enable and disable it as needed.

1. Tap the button .
2. Go to **Advanced**.
3. Activate the window-open mode by sliding the slider **Function** next to **Window opening setting time** to **ON**.
→ If open windows are detected, the temperature is automatically lowered to the set temperature for the set time duration.
4. Deactivate the window-open mode by sliding the slider **Function** next to **Window opening setting time** to **OFF**.

9 Holiday mode

The holiday mode controls the temperature over the period of your absence.

9.1 Using the holiday mode

To use the holiday mode, you must set the duration of your absence (days) and the temperature that you want to maintain during the absence.

1. Tap the button .
2. Go to **Advanced**.
3. Scroll to **Holiday mode time** and enter the number of absence days.
4. Scroll to **Holiday mode temperature** and enter the temperature to maintain during the absence. Allowable temperature values are constrained within the set range. See [Setting a fixed temperature range](#) ► 9].
5. Go to **General > Mode setting**.
6. Start the holiday mode by selecting **Holiday**.
 - The symbol  shows on the display.
 - The product controls the temperature according to the set days and temperature.
7. (If needed) Cancel the holiday mode by selecting a different mode under **General > Mode setting**.

10 Program mode

With the program mode, you can set temperatures for daily time slots for up to three work-week patterns: 5 day, 6 day and 7 day working week.

10.1 Defining programs

Define programs based on a 5 day, a 6 day or a 7 day work-week pattern. You define a program by customizing a built-in work-week template.

Note:

Each working week pattern can only have one program.

1. Tap the button .
2. Go to **Programming parameters**.
3. Under **Programming type**, tap the current work-week selection (example: 5 Work day - 2 Rest day).
4. Select a suitable work-week pattern and tap **Confirm**.
5. Tap a time slot and customize it.
6. Tap the associated temperature for the time slot and set the temperature. Allowable temperature values are constrained within the set range. See [Setting a fixed temperature range](#) ► 9].
7. Customize the other time slots.
8. Customize other work-week patterns as needed.

10.2 Enabling and disabling programs

After you have configured working week patterns, you can enable and disable them as needed.

1. Tap the button .
2. Go to **Programming parameters**.
3. Under **Programming type**, tap the current work week selection (example: 5 Work day - 2 Rest day).
4. Select the program for the working week pattern you want to enable and tap **Confirm**.
5. Go to **General > Mode setting**.
6. Enable the program by selecting **Programming**.
 - The symbol  shows on the display.

→ The product controls the temperature according to defined working week pattern.

7. (If needed) Disable the program by selecting a different mode under **General > Mode setting**.

10.3 Manually overwriting programs temporarily

While a program is enabled, use the manual overwrite function to manually set a new temperature until the next program interval takes effect.

The manual settings are temporary only until the next program interval activates. The next program interval will reset the manual settings back to the program settings.

1. While a program is enabled, set the desired temperature on the display.

→ The symbols  and  show on the display to indicate that manual overwriting is active.

→ The mode selection under **General > Mode** switches to **TemporaryManual**.

2. (If required) Re-enable the program by selecting **Program** under **General > Mode**.

→ The symbol  shows on the display.

11 Device security

As a product administrator you can limit what users can do with the product. Device security is provided at two levels:

- Display lock
- Password protection for settings

11.1 Display lock

The display lock prevents children and other persons from changing temperatures but also accidental changes.

11.1.1 Selecting display lock modes

Select a display lock mode based on your needs.

- **Half lock:** permits switching on and off the product.
- **Full lock:** fully locks the display and does not permit any input.

1. Tap the button .
2. Go to **Advanced**.
3. Scroll to **Child lock type**.
4. Select **Half lock** or **Full lock** depending on your needs.
5. Save the settings with **Confirm**.

→ You have set a display lock mode.

→ You can lock the display.

11.1.2 Locking and unlocking the display

After you have set a display lock mode, you can lock the display.

1. Tap the button .
2. Go to **General > Lock**.
3. Lock the display by selecting **Yes**.

- The display locks.
- The display shows the lock symbol  in its locked state.
- 4. Unlock the display by holding down the button  until the display unlocks.
- The display shows the lock symbol  in its unlocked state.

Note:

Holding down the button  after the display is unlocked will change the temperature setting.

11.2 Password protection

11.2.1 Setting and enabling password protection

By setting and then enabling a password you can prevent users from accessing the settings menu.

Important:

- The default password is **123456**. Using the default password is insecure. Set your own.
- The password is only set after disconnecting and reconnecting the product from the mains power supply.

1. Tap the button .
 2. Go to Advanced.
 3. Go to Password setting.
 4. Tap the field *****.
 5. Enter a 6-digit password.
 6. Save the settings with Confirm.
 7. Activate password protection by sliding the slider Function to ON.
 8. Enable password protection by disconnecting and reconnecting the product from the power supply.
- After the product has restarted, password protection is enabled.
 - You have set a password.
 - You have enabled password protection. You must enter the set password to access the settings menu.

11.2.2 Disabling password protection

1. Tap the button .
 2. Go to Advanced.
 3. Go to Password setting.
 4. Deactivate password protection by sliding the slider Function to OFF.
- You can access the settings menu without entering a password.

11.2.3 Recovering from a lost password

If you forget the password, use the master password to enter the menu and reset the forgotten password.

Important:

Do not share the master password with non-authorized users.

Master password: **361000**

1. Enter the master password to access the settings menu.

12 Mobile app

12.1 Controlling the product using the mobile app

After connecting the product to the Tuya cloud, you can control the product using the mobile app via the Tuya cloud and the Internet.

Preconditions:

- ✓ The product is connected to the Tuya cloud.
 - ✓ The WLAN connection symbol  and the cloud connection symbol  show on the display.
1. Open the mobile app.
 2. Control operation status, temperatures, modes and settings from the mobile app.

13 Advanced settings

13.1 Advanced temperature settings

Important:

Advanced settings require specialist knowledge and should only be adjusted by specialists to prevent system damage or damage to the environment in which the product is operated.

Menu entry	Purpose	Settings
Temperature compensation	Set the temperature offset between the displayed temperature and the actual temperature.	Setting range: -9 to +9°C Default: -1°C
Start temperature hysteresis	Set the system response range. Example: For a setting of 1°C and the temperature set to 20°C, the product will switch heating on at 19°C and off at 21°C.	Setting range: +0.5 to +2.5°C Default: +1°C
Low temperature protection value	Frost protection: The output is activated if the temperature measured by the sensor falls below the set value. Activate the function with the activation switch.	Setting range: +1 to +10°C Default: 5°C
High temperature protection value	The high temperature protection safeguards against excessive floor temperatures. Example: In the case of a floor heating and an open window, the high temperature protection will prevent the floor heating from compensating. An alert will show on the display if the high temperature protection is triggered.	Setting range: +20 to +70°C Default: +45°C

13.2 Sensor settings

Menu entry	Purpose	Settings
Sensor type	Select the sensor to be used for temperature measurements.	■ Built-in: Internal sensor controls the temperature.

Menu entry	Purpose	Settings
		■ External: External sensor controls the temperature. ■ Internal and external sensor: Internal sensor controls the temperature and the external sensor is used as the limiting sensor. ■ Default: Built-in
External sensor protection temperature hysteresis	Set the sensor response range.	Setting range: +1 to +9°C Default: +2°C

14 Troubleshooting

14.1 Error messages

Detailed error descriptions are shown in the menu tab **Information** of the settings menu.

Error	Meaning	Actions
Sensor fault	Sensor fault	Check that the correct sensor type is selected in the menu under Advanced > Sensor type .
	Damaged sensor	Replace sensor.

14.2 Resetting the product

Reset the product to return all settings to their default values.

1. Tap the button .
2. Scroll to **Advanced > Restore factory settings**.
3. Reset the product by selecting **Yes**.

→ All settings are reset to their default values.

15 Maintenance

15.1 Cleaning

Important:

- Do not use aggressive cleaning agents, rubbing alcohol or other chemical solutions. They damage the housing and can cause the product to malfunction.
- Do not immerse the product in water.

1. Switch the product off.
2. Clean the display with a damp cloth and little dishwashing detergent.

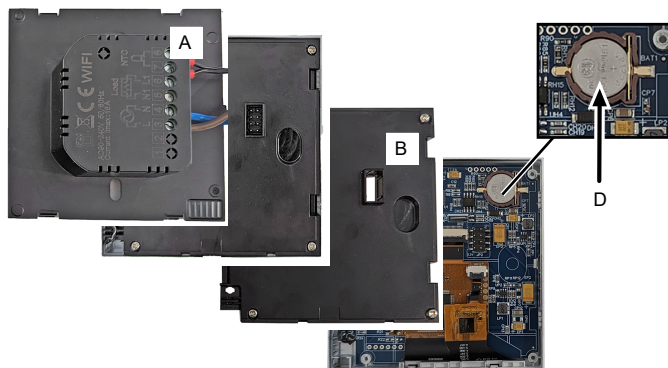
15.2 Replacing the backup battery

Replace the backup battery if the settings are no longer maintained during power outages.

Important:

- The battery must be replaced by a professional.
- The safety instructions must be observed before and while replacing the battery. See "Safety instructions".

Assembly diagram



D: backup battery

Procedure

1. Switch off the power supply to the product.
 2. Disconnect all connected wires.
 3. Touch an earthed metal object to discharge yourself from static charge to prevent damage to electronic components.
 4. Unclip and remove the thermostat unit (A).
 5. Unscrew and remove the cover (B).
 6. Carefully lift the cover (B) and guide the built-in sensor through the sensor opening in the cover.
 7. Carefully remove the battery (D).
 8. Replace the battery with a new battery of the same type. Insert the battery with the plus(+) -pole facing up. See [Technical data](#) ► 16] for the correct battery type.
 9. Reassemble the product.
 10. Rewire the product.
- All settings are reset to their default values.
- The product is ready for use again.

16 Technical data

16.1 Integrations

Mobile app control	Smart Life/Smart Living
Google Home support	Yes

Amazon Alexa support Yes

16.2 Power supply

Protection class Class II
Required wire cross-sectional area 2.5 mm²
Input voltage 90 – 240 V/AC
Input AC frequency 50/60 Hz
Output voltage 90 – 240 V/AC
Output frequency 50/60 Hz
Relay type..... Switch relay (1x pole)
Contact capacity max. 16 A
Max. switching capacity..... 3600 W (resistive load)
660 W (inductive load)
Backup battery..... 1x CR1220 battery

16.3 Thermostat

Temperature setting range +1 to +70 °C
Temperature display range..... +1 to +70 °C
Display accuracy ±0.5 °C

16.4 External sensor

Sensor type NTC (10k) 1%
Sensor wire length..... 2.5 m

16.5 Display

Touch display Yes
Display type LCD (IPS)
Display resolution 480 x 480 pixels
Display dimensions..... 71 x 61 mm

16.6 Security

Display lock function..... Yes
Password protection..... Yes
Master password 361000

16.7 Wi-Fi module

Wi-Fi standard IEEE 802.11b/g/n, 2.4 GHz
Wireless frequency band 2.400 – 2.484 GHz

Wi-Fi range	max. 100 m (in open area)
Wi-Fi transmission power	≤20 dBm

16.8 Others

Ingress protection	IP20
Operating temperature	0 to +50 °C
Operating humidity	20 – 80 % RH (non-condensing)
Storage temperature	-10 to +60 °C
Storage humidity	20 – 80 % RH (non-condensing)
Dimensions (W x H x D) (approx.)	86 x 86 x 15 mm
Weight (approx.)	250 g



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