65mm

80mm

MOES
Made smart life easy

Works with Tuya

Instruction Manual
TV05 Zigbee Thermostat Radiator Valve

English

ZTRV-ZX-TV05-EN-DD19

- Bitte scannen Sie den QR-Code, um das deutsche Handbuch, das Installationsvideo und die Funktion seinführung zu erhalten
- Escanee el código QR para obtener el manual en español, el vídeo de instalación y la introducción de la función
- Veuillez scanner le code QR pour obtenir le manuel en français, la vidéo d'installation et l'introduction des fonctions
- Отсканируйте QR-код, чтобы получить руководство на русском языке, видео по установке и описание функций
- Scansionare il codice QR per ottenere il manuale in italiano, il video di installazione e la guida alle funzionalità. Video di installazione e funzionalità
- Leia o código QR para obter o manual em português, o vídeo de instalação e a introdução das funções
- Zeskanuj kod QR, aby uzyskać instrukcję, filmy instalacyjne i funkcje
- من فضلك قم بمسح رمز الاستجابة السريعة (QR code) للحصول على دليل المستخدم باللغة العربية وفيديو التثبيت ووصف الوظائف

请扫描二维码获取说明书手册、安装视频和功能介绍

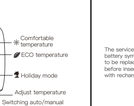
1.Information about this manual

Please read this manual completely and carefully before starting to use the product. It contains important safety information about the intended use of the device. Especially observe the safety notes. Keep the manual for later consultation. If you hand over the device to other persons for use, please hand over the operating manual as well.

2. Product Description

Thermostatic Radiator valve (TRV) is a self-regulating valve fitted to hot water heating system radiator, to control the temperature of a room by changing the flow of hot water to the radiator. With the TRV TV05 you can conveniently adjust the room temperature between 5~30℃, and save more than 15% of energy.
The radiator thermostat fits to all common radiator valves and is easy to mount—without having to drain any water or intervene in the heating system. The additional boost function enables the radiator to be heated up quickly for a brief period of time by opening the valve for 5 minutes. There will be a pleasant room temperature right away because of the radiated heat.

3. Device Overview



4. Start-up

4.1 Before we get started

2 x AA batteries are required for TRV to work, please get prepared. Temperature is shown in degrees Celsius.

4.2 Inserting (replacing) batteries

Insert 2 new LR6 (mignon/AA) batteries in the battery compartment, making sure they are the right way round.

The service life of new alkaline batteries is approximately 1.5 years. A battery symbol (🪫) on the display indicates that the batteries need to be replaced. After removing the empty batteries, wait approx. 1 minute before inserting the new ones. This device does not support operation with rechargeable batteries.

4.3 Run adaptive

The display of "ADA" with the rotating "⟳" shows that the motor is still travelling back.
When "ASA" is shown in the display, the radiator thermostat can be installed on the valve. After installation, press the pair button to run adaptive.
The display of "ASA" with the rotating "⟳" shows that an adapting run to adapt the thermostat to the valve.

⚠ If the adapting runs is initiated before installation, press pair button and the motor travels back to the "IHS" position. If an error message (F1,F2,F3) is displayed, press the Pair/Boost button and the motor similarly travels back to the "IHS" position.

5. Installation of the radiator thermostat

The radiator thermostat is easy to install and can be done without draining heating water or intervening in the heating system. No special tools are required, nor does the heating have to be switched off.
The ring nut attached to the radiator thermostat can be used universally and without accessories for all valves with a thread size of M30 x 1.5 from the most popular manufacturers such as:

Danfoss Heimeier MNG Junkers Landis&Gyr (Duodyr)
Honeywell-Braukmann Oventrop Schlosser Comap
Valf Sanayi Mertik Maxitrol Watts Wingenroth (Wiroflex)
Idmar54 R.B.M Tiemme Jaga Siemens

By means of the adapters in the delivery, the device can be installed on radiator valves of type Danfoss RA, Danfoss RAV and Danfoss RAVL.

5.1 Unscrew your existing radiator thermostat

No worries, water will not leak during this process.

5.2 M30 x 1.5mm

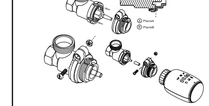
Screw the TV05 smart radiator thermostat directly onto the radiator if the connector type is M30 x 1.5 (picture shown as below). You can adjust the angle to make the led facing the viewer properly.
—Rotate the thermostat dial to the maximum value, the max value may be 6 or 8.
—Check the ⓘ is active.
—Install the device.

5.3 Danfoss RAVL Valve

—Check the ⓘ is active.
—The valve bodied have elongated notches around their circumference, which ensure that the adapter is properly seated when it snaps on: snap on the adapter completely,so that the pins inside the adapter are lined up with the notches on the valve.
—Install the adapter,Plane A is aligned with Plane B.
—Install the round tube into the device.
—Install the device.

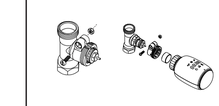
5.4 Danfoss RAV Valve

—Check the ⓘ is active.
—The valve bodied have elongated notches around their circumference, which ensure that the adapter is properly seated when it snaps on: snap on the adapter completely,so that the pins inside the adapter are lined up with the notches on the valve.
—Install the adapter,Plane A is aligned with Plane B.
—Union nut.
—Install the device.



5.5 Danfoss RA Valve

—Rotate thermostat dial to the maximum value, "N" Align Dial.
—Check the ⓘ is active.
—The valve bodied have elongated notches around their circumference, which ensure that the adapter is properly seated when it snaps on: snap on the adapter completely,so that the pins inside the adapter are lined up with the notches on the valve.
—Install the adapter,Plane A is aligned with Plane B.
—Union nut.
—Install the round tube into the device.
—Install the device.



6. Interface display

When you see the LED is showing information as below, the radiator thermostat is ready for configuration. If not, please uninstall and re-install the batteries and redo step 4.2.

To press the reset button to change the digital display direction for your choice.

7. Preparation for use

① Download MOES App on App store or scan the QR code

GET ON Google Play
Download on the App Store

MOES App is upgraded as much more compatibility than Tuya Smart/Smart Life App,functional well for scene controlled by Siri,widget and scene recommendations as the fully new customized service.
Note: Tuya Smart/Smart Life App still works,but MOES App is highly recommended!

② Registration or Log in

- Download "MOES" Application.
- Enter the Register/Login interface, tap "Register" to create an account by entering your phone number to get verification code and "Set password". Choose "Log in" if you already have a MOES account.

7.2 Add Thermostat Radiator Valve

—Open Tuya Smart or Smart Life App, use your phone number or email address to register and login. Tap + on the top right, choose Gateway Control->Wireless Gateway (Zigbee) and simply follow the inbuilt setup wizard for the gateway installation and configuration.
—Make the Zigbee smart gateway hub is added successfully, you can add the sub-device for the gateway hub following:
—Long press Pair button on the radiator thermostat for 5 seconds until the Zigbee signal icon flashed, which means the device has entered the pairing mode.
—The blue LED indicator of gateway hub flashes during pairing mode.
—When the radiator thermostat is successfully added, the blue LED indicator will extinguish within 1 second, the device Zigbee signal is always on.

8. Product features

8.1 Auto Mode

In automatic mode, the temperature is controlled in accordance with the set heating profile. Manual changes are activated until the next point at which the profile changes. Afterwards,

the defined heating profile will be activated again. To activate the automatic mode, please proceed as follows:
—Press the pair button to select (📅) icon.
—Default temperature: 17℃ and 21℃.
—Temperature range: 5~30 ℃, step 0.5 ℃.
—**App operation:** Click the manual mode icon in the App control panel.

8.2 Manual Mode

In manual mode, the temperature is controlled in accordance with the current temperature set via knob button. The temperature remains activated until the next manual change. To activate the manual mode, please proceed as follows:
—Press the pair button to select (🖐) icon.
Default temperature: 20℃
Temperature range: 5~30℃, step: 0.5 ℃.
App operation: Click the manual mode icon in the App control panel.

8.3 Holiday Mode

When you go out or go to a party, you will use the holiday mode. The holiday mode will automatically start at the set time starting point and run the holiday programme.
When the holiday mode is not activated, and you want to view the holiday mode settings, please press the pair button to view, the holiday mode icon (🧳) will flash for 5 seconds and then it will automatically return to the automode.If you want to end your holiday mode earlier, press the pair button to cancel.
App operation: Click the Mode icon in the App control panel, and switch to any other mode to cancel holiday mode.

8.4 Open Window Detection

The device automatically stop heating when it detects a sudden temperature drop of 3℃ in 5 minutes as default). This is usually caused by an opened window or door and the open window icon will display (OPEN) on the device. The device will operate according to the preset window. Press the pair button to cancel.

App operation: Click the open window icon in APP to cancel the window opening function.
The open window detection only operates in automatic mode and manual mode.

8.5 Offset Temperature

As the temperature is measured on the radiator thermostat, the temperature distribution can vary throughout a room. To adjust this, a temperature offset of ±5 °C can be set. If a nominal temperature of e.g. 20 °C is set but the room presents with only 18 °C, an offset of +2°C needs to be set. In app settings, the offset temperature is 0 degrees by default. To adjust the offset temperature, please proceed as follows:
App operation: Click the offset icon (±) in settings.
Default temperature: 20℃
Temperature range: 5~30℃, step: 0.5 ℃.
App operation: Click the manual mode icon in the App control panel.

8.6 Eco and Comfortable Temperature

The comfort and Eco temperature icon makes switching between comfort and Eco temperature simple and user friendly. These have been set at the factory at 21℃ (comfort temperature) and 17℃ (Eco temperature).
App operation: Click the Comfortable (☀) / Eco (🌛) temperature icon in the App control panel to select the corresponding temperature mode.

Even in auto mode, the temperature can be changed at any time using the button. It will then remain the same until the next point at which the program changes.

8.7 Child Lock

Operation of the device can be locked to avoid settings being changed unintended (e.g. through involuntary touch). To activate/deactivate the child lock, please proceed as follows:
App operation: Click the child lock icon in the App settings screen. The device display "LOC".

8.8 Anti–Freezing Mode

You can use this function when you go out in winter or when you are not at home for a long time. When this function is activated, the temperature in the house is kept at 8 ℃ ,the device display "AF" press the pair button to cancel.
App operation: Click the anti–freezing icon (❄) to turn on/off the function in the App settings screen.
Note: Once this function is activated, other functions are not available unless the function is deactivated.

8.9 Heating Stop (Power Saving) Mode

Battery life can be prolonged by switching the heating off. To achieve this, the radiator is closed fully. To activate the heating stop, the device display "HS". Press the pair button to cancel. please proceed as follows:
App operation: Click the heating stop icon (⏻) to turn on/off the function in the App settings screen.
Note: Once the function is activated, other functions are not available unless the function is deactivated.

8.10 Anti–Calcification (Descaling) Protection

The equipment will automatically run for a period of time every week to prevent calcification of the valve.

8.11 Boost

Sometimes people go home earlier than usual, and the rapid heating function will make you feel the warmth of the room faster. When activated, the valve will be fully opened for 5 minutes. The heating of a room takes longer than 5 minutes, but the heat given off by the radiator will make a room warmer.
The boost function can be activated by pressing the pair button. The remaining time for the function will be counted down in seconds ("299" to "000").
After these 5 minutes have elapsed, the actuator changes to the mode which was previously active (auto/manual) with the previously set temperatures. End this function ahead of time, press the pair button to cancel.

9.5 ECO Temperature

Click the ECO temperature icon (🌛) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.6 Offset

Click the Offset temperature icon (±) in the App settings screen.
Select the desired temperature.
Temperature range: -5~5 ℃, step: 0.5 ℃.

9.7 Holiday Setting

Click the holiday mode icon (🧳) in the App settings screen.
Select the start date and the end date.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.8 Open Window

Click the open window icon (🪟) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30℃, step: 0.5℃.

9.9 Comfortable Temperature

Click the comfortable temperature icon (☀) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.10 Child Lock

Click the child lock icon in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.11 Open Window Detection

Click the open window icon (🪟) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30℃, step: 0.5℃.

9.12 Anti-freezing

Click the anti–freezing icon (❄) in the App settings screen.
Select the desired temperature.
Temperature range: -5~5 ℃, step: 0.5 ℃.

9.13 Boost

Click the boost icon (🚀) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.14 Heating Stop

Click the heating stop icon (⏻) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.15 Calibration

Click the calibration icon (±) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.16 Schedule

Click the schedule icon (📅) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.17 Schedule Copy

Click the schedule copy icon (📅) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.18 Open Window Detection

Click the open window detection icon (🪟) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.19 Anti-freezing

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Select the desired temperature.
Temperature range: -5~5 ℃, step: 0.5 ℃.

9.20 Boost

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Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.21 Heating Stop

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9.25 Open Window Detection

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9.26 Anti-freezing

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Select the desired temperature.
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9.27 Boost

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Select the desired temperature.
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9.28 Heating Stop

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Temperature range: 5~30 ℃, step: 0.5 ℃.

9.29 Calibration

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9.30 Schedule

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9.32 Open Window Detection

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9.33 Anti-freezing

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Temperature range: -5~5 ℃, step: 0.5 ℃.

9.34 Boost

Click the boost icon (🚀) in the App settings screen.
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Temperature range: 5~30 ℃, step: 0.5 ℃.

9.35 Heating Stop

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9.85 Calibration

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Select the desired temperature.
Temperature range: -5~5 ℃, step: 0.5 ℃.

9.86 Schedule

Click the schedule icon (📅) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.87 Schedule Copy

Click the schedule copy icon (📅) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.88 Open Window Detection

Click the open window detection icon (🪟) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.89 Anti-freezing

Click the anti–freezing icon (❄) in the App settings screen.
Select the desired temperature.
Temperature range: -5~5 ℃, step: 0.5 ℃.

9.90 Boost

Click the boost icon (🚀) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

9.91 Heating Stop

Click the heating stop icon (⏻) in the App settings screen.
Select the desired temperature.
Temperature range: 5~30 ℃, step: 0.5 ℃.

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