

# Quick Start Guide

## Smart Thermostatic Radiator Valve

**Install Guide:**  
Scan QR code or visit  
<https://www.tp-link.com/support/faq/3404/>

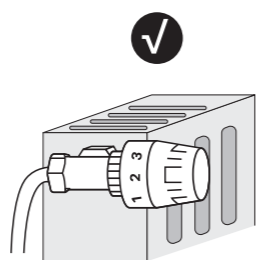


7106510498 REV1.2.1 \*Images may differ from your actual product.

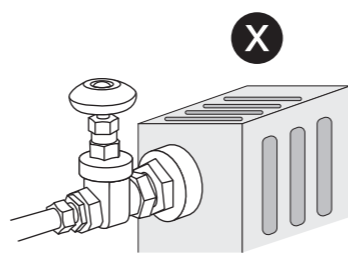
### 01 / Before Install

#### 1. Check existing valve type

There are two types of valves: **Thermostatic** and **Manual**. Kasa Smart Thermostatic Radiator Valve is only compatible with the thermostatic valve.



Thermostatic Valve

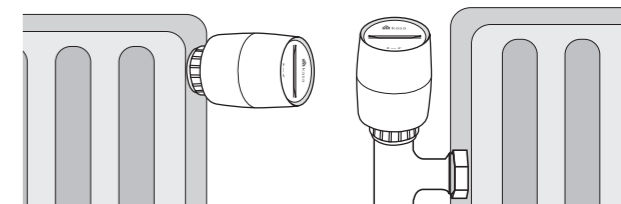


Manual Valve

#### 2. Check install requirements

1. Install the valve first before powering it up.
2. No need to shut off water before changing the radiator valve. Water will not leak.
3. Avoid installing the valve in the same room where you have installed the boiler thermostat.
4. Install the valve within range of your Kasa smart hub if you wish to control it using the Kasa Smart app.
5. Install the valve horizontally or vertically based on your needs.

#### Install Orientation

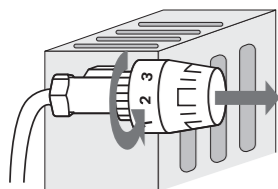


Horizontal Installation

Vertical Installation

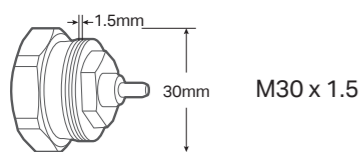
### 02 / Install the Valve

#### 1. Unscrew the existing valve.

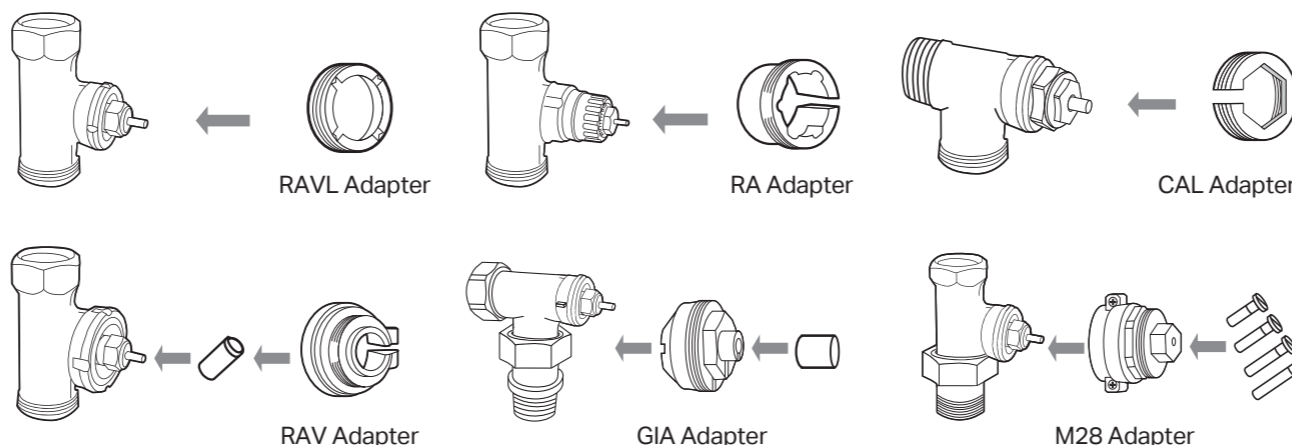


#### 2. Check your connector type. The ▲ at the bottom of the valve indicates the position of the display.

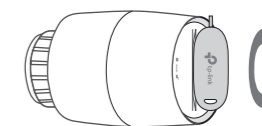
- For **M30 x 1.5** connector: Screw the new valve directly.



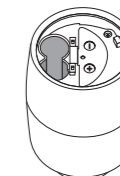
- For **non-M30 x 1.5** connector: Check whether one of the provided adapters fits the connector. If not, please purchase a proper one yourself.



#### 3. Remove the cover of the valve by rotating counterclockwise using the provided cover-opener.



#### 4. Open the battery cover and insert two AA LR6 Alkaline batteries. Make sure the positive and negative terminals face the correct direction.



\*Do NOT use rechargeable batteries or 1.2V AA batteries.

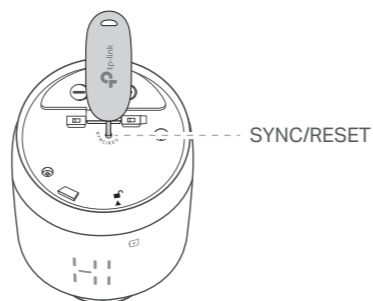
### 03 / Set Up the Valve After Install

If you want to remotely control / manage the valve, you need to add a Kasa smart hub first.

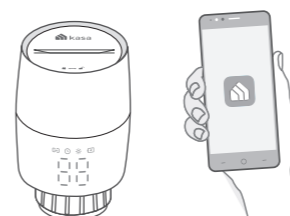
1. Set up a Kasa smart hub in the Kasa Smart app if you haven't already done so. You can get the Kasa Smart app from the App Store or Google Play.



2. Use the provided cover-opener to press and hold the **SYNC/RESET** button for 5 seconds to reset the valve.



3. Open the Kasa Smart app, tap + and select **Smart Thermostats**. Follow the app instructions to pair the valve and complete setup.



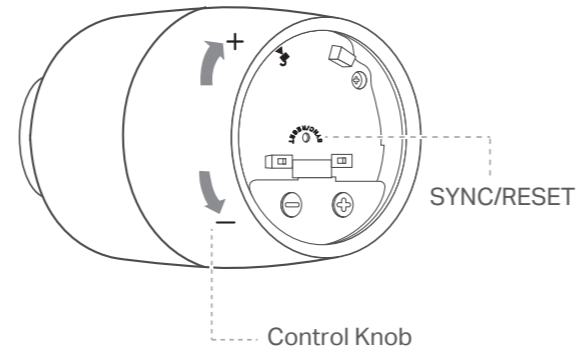
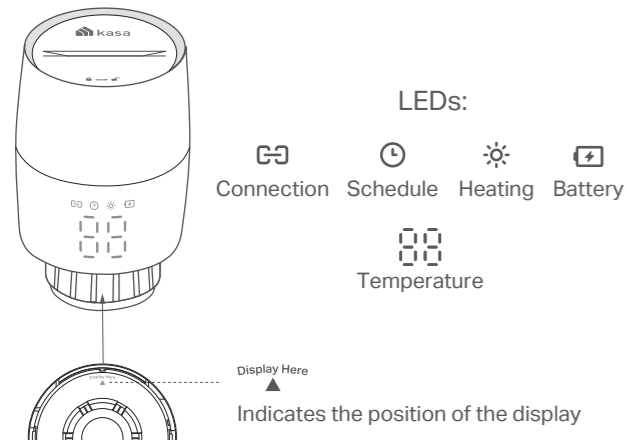
### Don't Have a Hub?

You can adjust temperature manually.

After inserting the batteries, the valve is ready to use. Rotate the valve to increase / decrease temperature.



## Appearance



## Button Explanations

Button	Operation	Result
Control Knob	Rotate clockwise	Raise temperature.
	Rotate counterclockwise	Lower temperature.
	Rotate with no shown display	Activate the display. Then you can rotate to adjust the temperature.
SYNC/RESET	Press and hold for 5 seconds	Restore to factory default settings, and enter pairing mode.

## LED Explanations

LED	LED Status	Event
Connection	Blinking slowly	Ready to be paired; Offline
	Blinking fast	Pairing; Device resetting
	Solid on	Pairing complete
Schedule	Solid on	Adjust temperature based on your schedule
Heating	Solid on	Raise temperature
	LED is off	Keep/lower temperature
Battery	Blinking	Low battery
	Solid on	Sufficient battery power

LED	LED Status	Event
Temperature	Blinking 88 twice, then blinking H, finally displaying normal temperature	Starting up
	Moving light, then displaying normal temperature	Calibrating
	Switching between CL and the normal temperature	Child lock enabled
	Switching between Ff and the normal temperature	Frost protection
	Displaying Lo	Low battery: Valve can't work properly
	Displaying FF	Sleep mode
	Displaying E!	No valve detected or valve not compatible
Displaying E?	Valve blocked by calcification	

\*You can rotate the LED display 180° in the Kasa Smart app.

## Battery Instructions

### Compatible Batteries:

Battery Type	Battery Voltage	Work Temp.
AA LR6 alkaline battery	1.5V	0°C-40°C

Note: Do NOT use rechargeable batteries or 1.2V AA batteries.

### Wireless:

Operating Frequency / Nominal Operating Frequency / Max Output Power:  
863~865MHz / 863.35MHz / 25mW(e.r.p)  
863~865MHz / 864.35MHz / 25mW(e.r.p)  
868~868.6MHz / 868.35MHz / 25mW(e.r.p)

### Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use the device where wireless devices are not allowed.
- Please read and follow the above safety information when operating the device.
- We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.
- Do not ingest battery, Chemical Burn Hazard
- Keep new and used batteries away from children.

### CAUTION!

Risk of fire or explosion if the battery is replaced by an incorrect type.

### CAUTION!

Avoid replacement of a battery with an incorrect type that can defeat a safeguard. Avoid disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion. Do not leave a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas. Do not leave a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU, 2009/125/EC, 2011/65/EU and (EU)2015/863.

The original EU declaration of conformity may be found at <https://www.tp-link.com/en/support/ce/>

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of the Radio Equipment Regulations 2017.

The original UK declaration of conformity may be found at <https://www.tp-link.com/support/ukca/>

## Frequently Asked Questions (FAQ)

### Q1. What should I do if the display shows E!?

- Rotate the valve, and then the valve will calibrate automatically.
- Check if the valve is installed properly.
- Check if the connector is M30 x 1.5. If not, choose a proper adapter.

### Q2. What should I do if the display shows E?

- The valve might be blocked by calcification. Use a spanner or a similar tool to move the pin in and out to unblock the valve.
- Re-install the old valve head and open/close it multiple times to improve the pin's movement. Then, restart and remount the new valve.
- Replace the batteries.

### Q3. Why CAN'T I control my radiator valve?

- If the display shows E! or E?, please refer to Q1/Q2.
- If the display shows Lo, then the battery power is running low and the valve can't work properly. Please replace the batteries.
- Refer to Q5 to reset the valve and set it up again.

### Q4. Can the radiator valve continue to work if there is no wireless connection or no internet access?

- You can still manage the valve in the Kasa Smart app as long as your phone is connected to the same Wi-Fi network as the valve.
- Manual control still works. You can rotate the control knob to adjust temperature.
- The schedules you have set will still activate as long as the connected hub works properly.

### Q5. How can I reset the radiator valve?

- Remove the cover of the valve, then use the cover-opener to press and hold the SYNC/RESET button for at least 5 seconds to reset the valve.
- Open the Kasa Smart app, then remove the valve on the Home page or in Device Settings. The valve will reset automatically.



## Need some help?

Visit [www.tp-link.com/support](http://www.tp-link.com/support)

for technical support, user guides, FAQs, warranty & more



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