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Model: LCD Digital Thermostatic Radiator Valve

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your Swokely LCD Digital Thermostatic Radiator Valve (TRV). This device is designed to regulate the temperature of individual rooms by controlling the hot water flow to your radiator, offering precise temperature management and energy efficiency through smart features.



Image 1.1: Swokely LCD Digital Thermostatic Radiator Valve. This image shows the main unit of the thermostatic radiator valve, featuring a black cylindrical body with an integrated LCD screen displaying various icons and temperature readings. The top part has a metallic, ridged cap.

2. SAFETY INFORMATION

- Read all instructions carefully before installation and use.
- Do not expose the device to extreme temperatures, direct sunlight, or moisture.
- Ensure batteries are inserted with correct polarity. Do not mix old and new batteries or different types of batteries.
- Do not attempt to disassemble or repair the device yourself. Contact qualified personnel for service.
- Keep the device out of reach of children.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x Radiator Thermostat (TRV)
- 1 x RAVL Adapter
- 1 x Adapter (Generic)
- 1 x User Guide (This document)
- 1 x Giacomini Adapter
- 1 x RA Adapter
- 1 x M28 Adapter
- 1 x RAV Adapter

Note: 2 x AA batteries are required for operation and are not included in the packaging.

4. SETUP AND INSTALLATION

4.1. Battery Installation

1. Twist the top cover of the TRV counter-clockwise to remove it.
2. Insert two (2) AA batteries into the battery compartment, ensuring correct polarity (+/-).
3. Replace the top cover by twisting it clockwise until it clicks into place.

4.2. Mounting the TRV

The TRV is compatible with various radiator valves using the provided adapters. Identify the correct adapter for your existing radiator valve.

Install the adapter

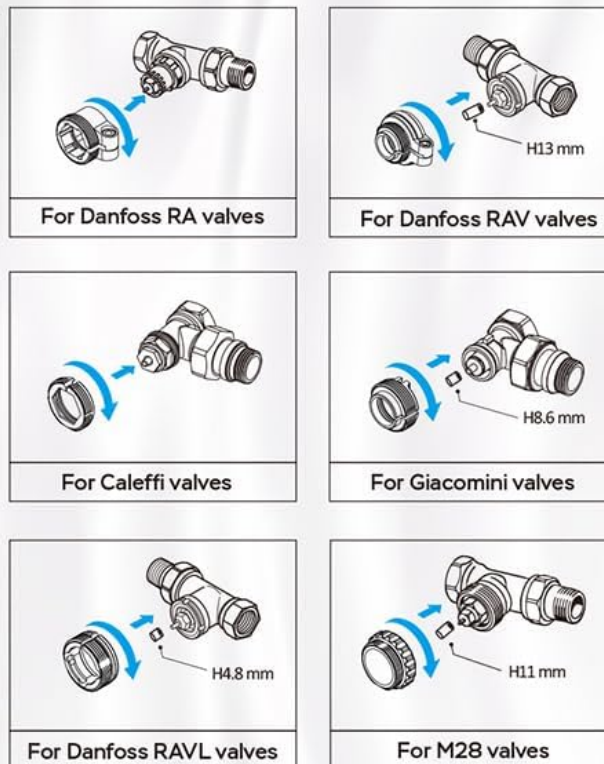


Image 4.1: Radiator Valve Adapter Installation Guide. This image illustrates how to install the TRV using different adapters for various valve types, including Danfoss RA, Danfoss RAV, Caleffi, Giacomini, Danfoss RAVL, and M28 valves, showing the specific dimensions for each adapter.

1. Remove your existing thermostatic head from the radiator valve.
2. Select the appropriate adapter for your radiator valve type (e.g., Danfoss RA, RAV, RAVL, Giacomini, Caleffi, or M28).
3. Attach the selected adapter to the radiator valve.
4. Screw the Swokely TRV onto the adapter until it is securely fastened.

4.3. Pairing with Tuya Zigbee APP

To utilize smart features, the TRV must be paired with the Tuya Zigbee APP via a Zigbee gateway (sold separately).

1. Ensure your Zigbee gateway is powered on and connected to your home network.
2. Download the Tuya Smart or Smart Life app from your mobile app store.
3. Open the app and add your Zigbee gateway if you haven't already.
4. Follow the app's instructions to add a new device. Typically, this involves putting the TRV into pairing mode (refer to

the device's display for pairing indicators, often a flashing Wi-Fi or Zigbee icon).

5. Once paired, you can control the TRV via the app.



Image 4.2: Mobile App Control Interface. This image displays a smartphone screen showing the Tuya Zigbee app interface for controlling the radiator thermostat. It indicates the current temperature setting and allows for manual mode adjustments.

5. OPERATING INSTRUCTIONS

5.1. LCD Display Overview

The LCD screen provides real-time information and allows for direct control. Refer to the diagram below for an explanation of the display elements.

Home Screen Quick Reference

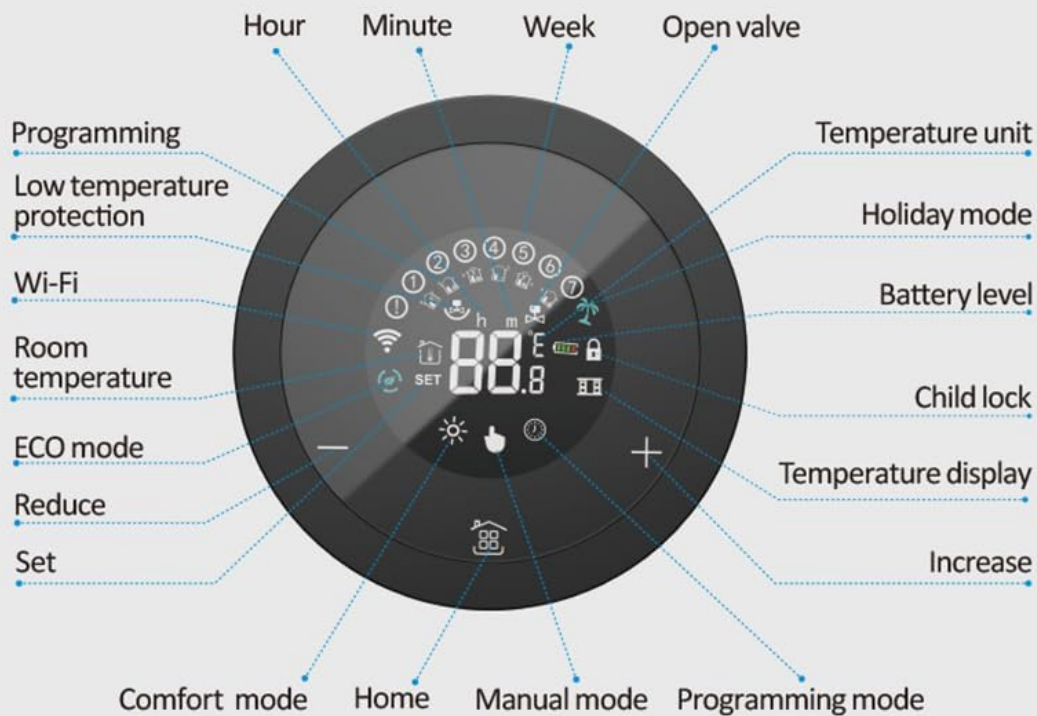


Image 5.1: TRV Home Screen Quick Reference. This diagram labels various indicators on the TRV's LCD screen, including Hour, Minute, Week, Open valve, Temperature unit, Holiday mode, Battery level, Child lock, Temperature display, Increase, Set, Reduce, ECO mode, Room temperature, Wi-Fi, Low temperature protection, Programming, Comfort mode, Home, Manual mode, and Programming mode.

5.2. Basic Temperature Control

- **Adjusting Temperature:** Use the '+' and '-' touch buttons on the device to increase or decrease the desired temperature. The set temperature range is 5°C to 45°C.
- **Display Temperature:** The current room temperature is displayed on the LCD screen.

5.3. Operating Modes

- **Manual Mode:** Allows direct temperature setting using the '+' and '-' buttons.
- **Programming Mode:** Set custom heating schedules for different times of the day and week via the Tuya Zigbee APP.
- **ECO Mode:** An energy-saving mode that maintains a lower, predefined temperature.
- **Comfort Mode:** Maintains a higher, predefined comfortable temperature.

- **Holiday Mode:** Sets a constant, energy-saving temperature for an extended period, useful when away from home.
- **Low Temperature Protection:** Automatically activates heating if the room temperature drops below a certain threshold to prevent freezing.

5.4. Boost Function

The boost function provides rapid heating. When activated, the valve opens fully for a short period (approximately 5 minutes) to quickly warm the room. This function can typically be activated via the app or a specific button combination on the device (refer to the app or device interface for exact activation method).

5.5. Smart Features (via Tuya Zigbee APP)

- **Remote Control:** Adjust temperature and modes from anywhere using the Tuya Zigbee APP.
- **Voice Control:** Integrate with voice assistants like Amazon Alexa or Google Assistant for hands-free control.
- **Scheduling:** Create detailed heating schedules to optimize comfort and energy savings.
- **Device Sharing:** Share control of the TRV with family members through the app.

Voice Control

The TRV works with Amazon Alexa, Google Assistant, so you can control your device how you like. Make your home warmer.

Hi google, switch to ECO mode



"Okay"



WORKS WITH
amazon alexa



WORKS WITH
Google Assistant

Image 5.2: Voice Control Integration. This image demonstrates the TRV's compatibility with voice assistants like Amazon Alexa and Google Assistant, showing a user giving a command "Hi Google, switch to ECO mode" and the assistant responding "Okay".



Image 5.3: Device Sharing Feature. This image illustrates the ability to share control of the smart device with multiple family members through the mobile application, creating a shared smart home environment.

6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** When the battery level indicator on the LCD screen shows low battery, replace the AA batteries promptly to ensure continuous operation. Follow the battery installation steps in Section 4.1.
- **Environmental Conditions:** Ensure the device is kept within the specified environmental humidity and temperature ranges to prevent damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not powering on	Batteries incorrectly installed or depleted.	Check battery polarity; replace with new AA batteries.
Cannot pair with APP	TRV not in pairing mode; Zigbee gateway not connected; distance too far.	Ensure TRV is in pairing mode (flashing icon); check gateway connection; move TRV closer to gateway.
Inaccurate temperature reading	TRV is too close to a heat source or cold draft.	Ensure TRV is not obstructed or directly exposed to external temperature influences.
Radiator not heating/cooling	Valve stuck; TRV not properly mounted; system issue.	Check TRV mounting; manually check radiator valve operation; consult a heating technician if system issues are suspected.

8. SPECIFICATIONS

Feature	Detail
Power Supply	3 V / 2 x AA battery (not included)
Environmental Humidity	5~95% RH (non-condensing)
Maximum Stroke	5.5mm
Set Temperature Range	5~45 °C
Environmental Temperature	0-45 °C
Display Temperature Range	0-70 °C
Storage Temperature	-5~45 °C
Protection Level	IP20
Accuracy	± 0.5 °C
Timing Error	<1%
Button Type	Touch button
Product Size	9.2 * 5.8cm / 3.6 * 2.3inch
Item Weight	9.1 ounces
Package Dimensions	5.35 x 3.35 x 3.35 inches
Manufacturer	Swokely

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the point of purchase or contact your retailer. Keep your purchase receipt as proof of purchase.

For further assistance, please visit the official Swokely website or contact customer service through the contact information provided on the product packaging or retailer's website.

ASK A QUESTION ABOUT THIS MANUAL

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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