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Aqara VC-X01E

Aqara Smart Valve Controller T1 (Model VC-X01E) Instruction Manual

Brand: Aqara | Model: VC-X01E

1. INTRODUCTION

The Aqara Smart Valve Controller T1 is a smart home device designed to automate the control of water valves in your home. It integrates with Aqara Zigbee 3.0 hubs and supports Matter-over-bridge, allowing compatibility with various third-party smart home platforms. This device provides real-time monitoring and automatic shutoff capabilities when paired with water leak sensors, enhancing home safety and promoting energy efficiency.

2. WHAT'S IN THE Box

- Smart Valve Controller T1 x 1
- Accessory Kit x 1
- User Manual x 1

3. KEY FEATURES

- **Zigbee with Matter Support:** Requires an Aqara Zigbee 3.0 Hub (sold separately) for Matter-over-bridge compatibility with Apple Home, Google Home, Alexa, Samsung SmartThings, Homey, and Home Assistant.
- **Real-time Monitoring and Automation:** Pairs with water leak sensors for automatic shutoff, providing enhanced safety and real-time status updates via the Aqara Home app.
- **Easy Installation and Wide Compatibility:** Retrofit design for existing valves (DN15, DN20, DN25 - 1/2 in, 3/4 in, 1 in) with lever/butterfly handles. No additional piping work required.
- **Flexible Remote Control:** Manage valves remotely through the Aqara Home app or manually on-site.
- **Energy Saving and Environmental Protection:** Powered by 4xAA batteries for up to 2 years of operation, eliminating the need for wiring and reducing energy waste.

4. SETUP AND INSTALLATION

An Aqara Zigbee 3.0 Hub (sold separately) is required for the full functionality of the Valve Controller T1. Ensure you have a compatible hub (all Aqara hubs except Camera G2H Pro) and a Matter Controller for your chosen platform.

4.1. Pre-installation Considerations

- The device is rated at IP20 and is **not suitable for outdoor installation** or areas with water ingress risk.

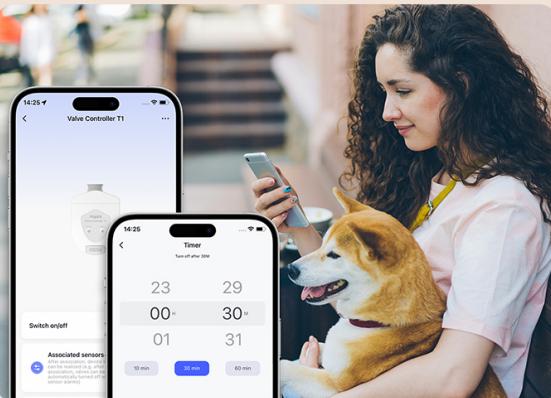
- Ensure sufficient space around the valve for installation. At least 187 x 248 mm should be reserved above the pipeline.
- Compatible with DN15, DN20, DN25 (1/2 in, 3/4 in, 1 in) pipe diameters and lever/butterfly handles. Different pipe sizes may require specific installation accessories.



Image: Dimensions of the Aqara Smart Valve Controller T1, showing required clearance for installation.

4.2. Physical Installation

The Valve Controller T1 is a retrofit device designed for easy installation on existing valves without major plumbing modifications.



Comprehensive Control Options for Seamless and Versatile Management

The Valve Controller T1 offers manual control, real-time remote control via the app, timer-based settings, and automation with other smart home devices, ensuring seamless, precise, and user-friendly operation.

Disclaimer: this product is at IP20 rating, does NOT provide any safeguards against water ingress, and is NOT suitable for outdoor installation.

Image: Before and after installation of the Aqara Smart Valve Controller T1 on an existing valve.

The accessory kit includes various clamps and screws to secure the controller to your valve. Ensure the valve handle is properly aligned with the controller's mechanism.

DN15 and DN20 pipe required installation accessories:



DN25 pipe required installation accessories:



Image: Installation accessories for DN15, DN20, and DN25 pipes, including clamps and brackets.

4.3. Pairing with Aqara Hub

Once physically installed, pair the Valve Controller T1 with your Aqara Zigbee 3.0 Hub using the Aqara Home app. Follow the in-app instructions for device discovery and connection.

4.4. Wi-Fi Setup (if applicable)

If your hub supports Wi-Fi, ensure it is connected to your home network. The Valve Controller T1 communicates with the hub via Zigbee, and the hub connects to your network.

Video: Official installation guide for the Aqara Smart Valve Controller T1, demonstrating the physical setup process.

5. OPERATING INSTRUCTIONS

5.1. Remote Control via Aqara Home App

Use the Aqara Home app to remotely open or close your water valve. The app provides a user-friendly interface for managing your device from anywhere.

 <p>Always-On Monitoring and Automatic Shutoff</p> <p>The Valve Controller T1 integrates with water leak sensors for real-time monitoring and immediate auto shutoff, preventing potential flood leak hazards.</p>	 <p>Comprehensive Control Options</p> <p>The Valve Controller T1 offers manual, app-based remote, timer, and automated controls with smart home devices, ensuring precise and user-friendly operation.</p>	 <p>Easy Retrofit Installation</p> <p>The Valve Controller T1 is easy to install on existing water valves without major pipeline modifications, ideal for users unfamiliar with pipeline arrangements.</p>
 <p>Wide Compatibility for Household Valves</p> <p>Valve Controller T1 efficiently controls DN15, DN20, and DN25 (1/2 inch, 3/4 inch and 1 inch) valves with lever or butterfly handles, making it versatile for various home water system applications.</p>	 <p>Zigbee with Matter over Bridge Support</p> <p>When connected to an Aqara Zigbee hub, it integrates with Aqara devices and major ecosystems like Apple Home, Alexa, Google Home, SmartThings, Home Assistant, and Homey, creating a connected and safe home.</p>	 <p>Long-Lasting Battery Operation</p> <p>Valve Controller T1 uses 4 AA batteries, requires no wiring, and operates for up to 2 years with low power consumption, ensuring long-lasting water safety.</p>

Image: Screenshot of the Aqara Home app showing controls for the Valve Controller T1, including manual open/close and timer settings.

5.2. Manual Control

The Valve Controller T1 also allows for manual operation directly on the device, providing flexibility even without app access.

5.3. Automation with Water Leak Sensors

Integrate the Valve Controller T1 with Aqara Water Leak Sensors to create automated rules. For example, if a leak is detected, the valve can automatically shut off the main water supply.

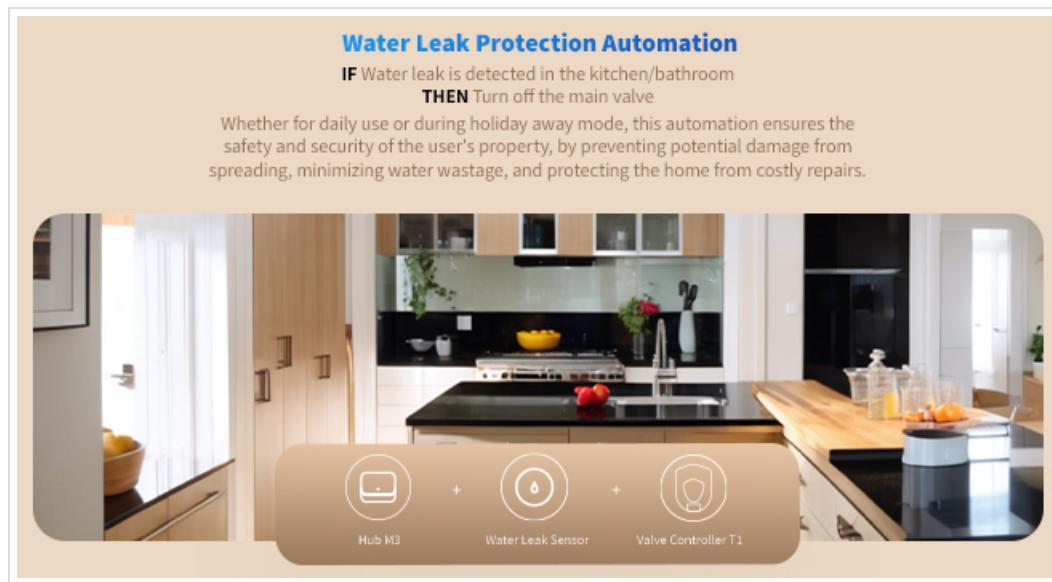


Image: Diagram illustrating water leak protection automation: if a leak is detected, the main valve is turned off.

Video: Explanation of how the Aqara T1 Valve Controller protects your home by integrating with other smart devices.

5.4. Smart Home Platform Integration

The Valve Controller T1 supports major third-party platforms like Apple Home, Amazon Alexa, Google Home, Samsung SmartThings, Homey, and Home Assistant through Matter-over-bridge via the Aqara Hub.



Image: Visual representation of the Aqara Smart Valve Controller T1's compatibility with various smart home ecosystems including Aqara Home, Apple Home, Amazon Alexa, Google Home, and SmartThings.

6. MAINTENANCE

6.1. Battery Replacement

The Valve Controller T1 operates on 4xAA batteries. The low-power consumption design ensures the device can function for up to 2 years. Replace batteries when the device indicates low power to ensure continuous operation.



Image: Close-up view of the battery compartment of the Aqara Smart Valve Controller T1, showing four AA batteries.

7. TROUBLESHOOTING

- **Device not pairing:** Ensure your Aqara Zigbee 3.0 Hub firmware is updated and reconnected to the network. Try forcing the valve into pairing mode by removing a battery for about a minute, then pressing and holding the Reset button while reinserting the battery. If issues persist, reset the hub's Zigbee settings.
- **Valve not operating smoothly:** The motor is strong, but stiff valves may cause issues. Ensure proper placement and that the valve operates smoothly manually before installation.
- **Installation difficulties:** Ensure correct accessories are used for your specific pipe size and valve type. Refer to the installation diagrams and videos for guidance.

8. SPECIFICATIONS

Feature	Detail
Model Number	VC-X01E
Brand	Aqara
Product Dimensions	2.83 x 3.31 x 3.66 inches (7.19 x 8.41 x 9.30 cm)
Item Weight	12 ounces (0.34 Kilograms)
Material	Polycarbonate (PC)
Color	White

Batteries	4 AA batteries required (included)
Operating Temperature	131.15 Degrees Fahrenheit (55.08 °C)
Smart Home Compatibility	Matter-over-bridge (via Aqara Hub), Apple Home, Google Home, Alexa, Samsung SmartThings, Homey, Home Assistant
Manufacturer	Lumi United Technology Co., Ltd

9. WARRANTY AND SUPPORT

Aqara offers various protection plans for their products. Please refer to your purchase documentation or contact Aqara customer support for specific warranty details and technical assistance.

For product setup videos, FAQs, or more information about Aqara products, please visit the official Aqara website or contact their support team.

10. SAFETY INFORMATION

- This device does not provide safeguards against water ingress and is **not suitable for outdoor installation**.
- Ensure all power is disconnected before performing any installation or maintenance.
- If you are unsure about any installation steps, it is recommended to consult a qualified electrician or plumber.