FRANKEVER®

Smart Water Valve FK-V02 User Manual



Wi-Fi and Bluetooth

POWERED BY Shelly

Technical specifications

Ball valve, stainless steel, precise valve position control
Ingress Protection: IP65
Model No: FK-V02
Material: SS304 & Engineering Plastics
Valve size: DN15, DN20, DN25, DN32
Screw thread: NPT BSP
Max. pressure: 1.0 MPa
Input Voltage: DC 5V, 2A by USB adapter
Ambient temperature: -30°C ~ 60°C
Water temperature: 0°C ~ 90°C

Read before use

This document contains important technical and safety information about the device, its safe use and installation. Before beginning the installation, please read carefully and entirely this guide and any other documents accompanying the device. Failure to follow the installation procedures could lead to malfunction, danger to your health and life, violation of the law or refusal of legal and/or commercial guarantee (if any). HANGZHOU FRANKEVER ELECTRONIC CO. , Ltd. is not responsible for any loss or damage in case of incorrect installation or improper operation of this device due to failure to follow the user and safety instructions in this guide.

Safety Information

CAUTION! The valve should be installed by qualified technician!
WARNING! Before installing the valve, turn off the water supply, ensure the water pipes are empty, and there is no chance for a water to be supplied during work!
CAUTION! Do not install the product in a system with pressure higher than 1.0 MPa, or install it after a pressure reducing valve!
CAUTION! Do not attempt to service or repair the water valve yourself!
CAUTION! Use the valve only with the original accompanying equipment!
CAUTION! Do not use the valve if it has been damaged or show signs of malfunction or defect, and contact your dealer for assistance!
CAUTION! Do not expose on a direct sunlight, or install near source of heat!
WARNING! The USB connection to the plug is not watertight! Ensure it is always kept dry, and protected from water splashing!
CAUTION! Keep all wire junctions dry!
CAUTION! When connecting the USB plug to the power grid, ensure the plug and the wall outlet are not wet or damp!
RECOMMENDATION! Keep these instructions for future reference.

Installation Guidelines

After installing the valve ensure the connections are watertight, and there are no water leaks.
Ensure the power cords between the valve and power supply have enough slack to avoid tension in junctions.

Manual operation



1. Manual Switch: Short press the manual switch to open/close the valve.
2. Network reset: Long-press the button until the LED indicator starts flashing quickly to enable the device's Access Point and Bluetooth connection (see Local-only operation).

Temperature sensor

The Smart Water Valve also supports connecting a temperature sensor for temperature monitoring and smart automation.
The supported model is the popular DS18B20 temperature sensor, ending with a 3.5mm audio jack, wired as shown on the diagram below:



The sensor must be connected to the female audio jack socket, attached to the power cable. The Smart Water Valve will discover the sensor automatically and the discovery can take up to a minute.
Once the temperature sensor is discovered, its readings will be shown in the app and local web interface, and you can use it to define actions based on changes in the temperature - e.g. close the valve is the temperature drops below 5° C.

Using your valve with Shelly Smart Control app

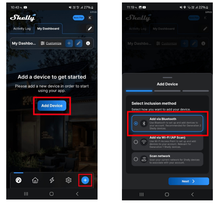
The valve can be controlled remotely using the Shelly Smart Control mobile application.

To install the mobile application, scan the QR code below or search for "**Shelly Smart Control**" in Apple AppStore or Google Play to install.

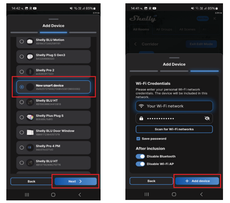
The mobile application is free, but you need to create a free account to use it.

Installation

1. Open your Shelly Smart Control app.
2. Tap on the Add Device button if this is the first device you are adding. If you already have devices added to your account, tap on the plus sign at the bottom right corner of the screen.
3. Select "Add via Bluetooth" and press Next.



4. Enter your Wi-Fi network credentials and press Next.
5. Wait until the process to complete, which might take several minutes.
6. Set a device name and select a room to add it to.



Once added to your Shelly account, the valve can be controlled and monitored remotely using the mobile application.

The valve opening can be set between 0% and 100% in 10% steps.



Configuration

The configuration page allows you to set Wi-Fi and Bluetooth connection, share the device with other accounts, reset the valve and configure the valve as a Wi-Fi range extender.

The Smart Valve supports configuring power-related actions:
- on power loss - open, close, or set the valve at a predefined position in %.
- when power is restored - open, close, set to a predefined position, or restore the position of the valve before power outage.
When power is lost, the valve has enough power reserve to perform at least one full open or close operation.

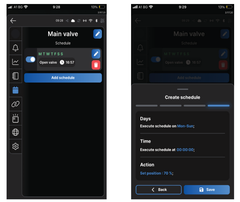
Scenes

As part of Shelly Cloud, the valve can be integrated into scenes that coordinate the actions of multiple devices in your account to achieve a desired result.

For example, a scene called "Going on vacation" may include:
- Shelly Dimmer to turn off the house lights.
- Smart Water Valve to turn off the water supply.
- Shelly 2PM device to close the window blinds.

Schedules

Use the Schedules to configure the valve to perform actions at a specified time or day.



Factory reset

Factory Reset: Erases all the changes made by the user, the device is removed from the user's account, and its settings are set to factory state. After using this feature, the device can be added again to your Shelly Smart Control account.

Local-only operation

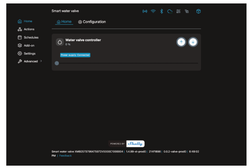
Every Shelly device provides a local web interface for control and configuration through a standard web browser using a computer or smartphone, without the need for an internet connection. The only requirement is your browser to be in the same Wi-Fi network as your Powered by Shelly device.

Access the device directly over its Wi-Fi access point.
All Wi-Fi devices start a Wi-Fi access point when powered up. The name of this Wi-Fi network contains the model of your device coupled with a unique identifier for the device.

To access the web interface:
On your computer or smartphone, find the Wi-Fi network with a name (SSID) "DeviceName-XXXXXXXXXX", where 'DeviceName' is the name of the device you want to connect to, and 'XXXXXXXXXX' represents a unique combination of letters and numbers, constituting the device ID, This is the device access point.
After connecting to the access point, enter http://192.168.33.1 and you will be redirected to the local web interface.

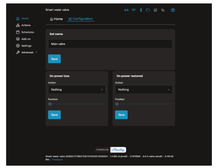
Controlling the valve via local web interface

"Home" tab:
- Open or close the valve via the up & down arrows.
- Open the valve to a certain percentage via the horizontal slider.
If the valve loses power, it will also be shown on the home screen.



Note: in case of power loss, the valve has limited time of usually one open or close action, if such is specified in the valve configuration screen.

The "Configuration" tab:
-Set up the behavior of the valve on power loss, as described previously.



Actions

You are able to define actions when certain conditions are met. Actions can also be limited to be active during a certain period of time during the day.

Note: If you choose to perform a factory reset via the local web interface, the device will be restored to its original factory settings. However, unlike performing a factory reset through the mobile application, this method does not remove the device from your user account.

Note: The Device comes with factory-installed firmware. To keep it updated and secure, Shelly Europe Ltd. provides the latest firmware updates free of charge. Access the updates through either the embedded web interface or the Shelly Smart Control mobile application. Installation of firmware updates is the user's responsibility. Shelly Europe Ltd. shall not be liable for any lack of conformity of the Device caused by the failure of the user to install the available updates in a timely manner.

Declaration of Conformity

Hereby, HANGZHOU FRANKEVER ELECTRONIC CO. Ltd. declares that the Smart Water Valve is in compliance with Directives 2014/53/EU,2011/65/EU . The full text of the EU Declaration of Conformity is available at the following internet address: https://shelly.link/frankever-swv1-doc

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Disposal and Recycling

Do not dispose of the product in household waste. Recycle the product to prevent environmental and health damage and to promote resource conservation. Dispose of the product at an appropriate waste collection point at your own responsibility.

Resellers, from which the Device was purchased, are required to accept Waste Electrical and Electronic Equipment (WEEE) free of charge for proper disposal.

Some electronic products may store personal data. The user is responsible for deleting this data before disposing of the Device. For deletion, reset the device to its factory settings.

EN How to recycle
DE Wiev recyceln
IT Come riciclare
FR Commentre cycler
PT Como reciclar
ES Eomo reciclar



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