FRANKEVER ®
controlled and monitored remotely using the mobile

Smart Water Valve
User Manual

Wi-Fi and Bluetooth

Product Description

DC 5V/2A power supply by adapter
Mobile APP using MCU microcomputer control technology
Timing regularly closing and multi-angle opening function
Waterproof : IP65

Model No.: FK-V02
Materials: SS304 & Engineering Plastics
Valve Size: DN15,DN20,DN25,DN32
Screw Thread: NPT BSP
Max pressure: 1.0Mpa
Input Voltage: DC5V 2A
Support Ambient Temperature:-30℃~60℃

Frequency of Timing:
Unlimited times per day,the interval between the maximum period is once a week.

Controller Operation:
App manual control, Field manual operation,
APP cloud timing, Countdown

● Key Function

1. Manual Switch:
When on power short press the manual switch to open/close the valve.
2. Network Configuration:
Long press the button for 5 seconds until the LED light flashes quickly,Connect phone to the network.

Temperature sensor input

The Smart Water Valve also supports connecting a temperature sensor for temperature monitoring and smart automations.

The supported sensor is the popular **DS18B20** temperature sensor, ending with a 3.5mm audio jack, wired as shown on the diagram below:

VDD
DQ
GND

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.
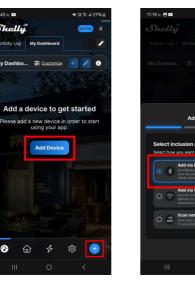

App Download

Scan the QR code or download the **Shelly Smart Control** app from Apple Store or Google play to install.
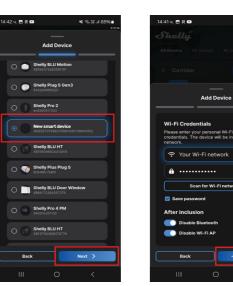If you don't have an account you need to create one in the app.

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 Bluetooth and press **Next.**

4. Enter the requested credentials and press Next.
5. Wait while your device is added to the network. This might take several minutes.
6. Change the Device name and room it is located in

Controlling your smart valve through the App

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

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

Configuration

The configuration page in the app supports all generic settings for the device, like controlling WiFi and Bluetooth connection, device resets, sharing, etc. For the Smart Valve, you can configure actions to be performed:

- on power loss - either open, close or set the valve at a predefined position in %
- when power is restored - in addition to open, close and set position, an option to restore the position of the valve before power was lost is also available.

Scenes

As part of Shelly Cloud, the valve can be integrated into scenes that coordinate multiple devices in your account acting in tandem to achieve a desired outcome.For instance, a scene called "Going on vacation" can:
- Turn off all lights around the house by instructing the Shelly Dimmer controllers around the house.
- Cut off the water supply using the Smart Water Valve
- Close the blinds using a Shelly 2PM.

Schedules

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

Local Web interface

Every Shelly device provides local web interface for you to control and configure your devices through a standard web browser on either your computer or mobile device. Its functionality encompasses an array of adjustment and control features, including the ability to power your device on or off, set schedules and configure actions to be executed when certain conditions are met, configure the device and much more.

You do not need internet connection or Shelly Cloud to use the local web interface - the only requirement is that your browser must be in the same WiFi network as your Shelly device.To use the web interface you **must:**

- Connect to a Wi-Fi network with a name (SSID) that follows this format: "WaterValve-XXXXXXXXXX", where 'XXXXXXXXXX' represents a unique combination of letters and numbers, constituting the device ID
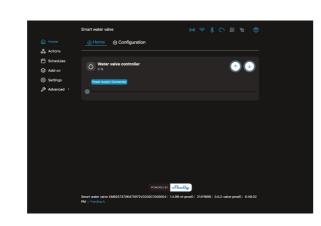
- After establishing a connection to the device's Access Point accessing the web interface is done by entering the universal IP address for all Shelly devices http://192.168.33.1 in your browser

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Controlling via local web interface

In the "Home" screen of the web interface, you can access the device main functionality - fully opening/closing the valve or opening the valve to a certain percent. Opening and closing the valve can be done via the up & down buttons of the control UI. You can also open the valve to a certain percentage using the horizontal slider. On the main page you can find an indication of the power status. If the valve loses power, this will be indicated on the home screen.
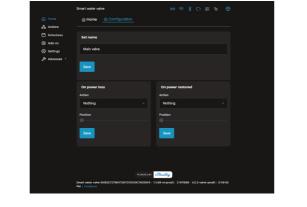

Note: in case of power loss, the valve has limited time of operation - usually one open or close action, if such is specified in the valve configuration screen.

Valve configuration via the web interface

The configuration screen can be accessed from the tabs on top of the main screen, and allows you to set up the behavior of the valve on power loss

In case of power loss you can choose between the following options:
- Open the valve completely
- Close the valve completely
- Set position of the valve - define a level in percentage of opening/ closing of the valve of the main screen, and allows you to set up the behavior of the valve on power loss.

Similar options for behavior are available when the power is restored, with the addition of "Restore last position".

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.

The most frequently used action is to run a web hook (a web request to a server or another Shelly device). These can be used as a notification or as an instruction for another Shelly device to perform an operation (e.g turn something on or off) - entirely locally without the need of a cloud connection. Actions can also be limited to be active during a certain period of time.

Voice Control

Amazon Alexa

* Alexa, open <device name>
* Alexa, close <device name>.

works with amazon alexa

Google Assistant

* Ok, Google, open <device name>
* Ok, Google, close < device name>

works with Google Assistant

* Tips: You can name the device yourself

Packaging recycling

EN Howtorecycle
DE Wirerecycleln
IT Comericiclare

FF Commentrecycler
PT Comoreciclar
ES Eomorecicdar