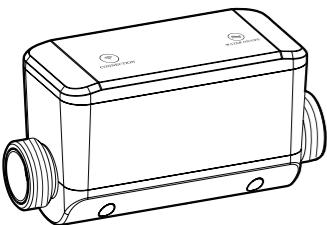


# Wi-Fi Smart Water Valve

NAS-WV02W  
USER MANUAL



Thank you for choosing our  
Wi-Fi Smart water valve!

POWERED BY

## Features

- Suitable for drinking water systems.
- Manual and remote control of the valve.
- Ultrasonic water flow measurement technology.
- Real-time water temperature, pressure and flow rate measurement.
- Option for local-only operation via a web interface. Cloud services are not required.
- Programmable behavior.
- Supported by home automation systems out of the box.
- Data shown in Metric (SI) or Imperial units.

With Shelly Cloud, you also get:

- Water flow, water temperature and pressure statistics for a period up to 30 days.
- Interactions with other smart devices.
- Option for configuring notifications.

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## 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). NEO Smart Technology (GuangDong) 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.

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## 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 indicated in the specifications, or install it after a pressure reducing valve!  
**WARNING!** The USB type A connection to the power adapter is not watertight! Ensure it is always kept dry, and protected from water splashing!  
**CAUTION!** Keep all wire junctions dry!  
**WARNING!** Indoor use only!  
**CAUTION!** Do not attempt to disassemble, service or repair the water valve yourself!

**Note:** The lowest detection temperature of water temperature is -10°C. When the water temperature is lower than 0°C, the water valve cannot be turned on/off.

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**CAUTION!** After installing the valve ensure the connections are watertight, and there are no water leaks.  
**CAUTION!** Ensure the power cord between the valve and power supply have enough slack to avoid tension in junctions.  
**WARNING!** The USB type A connection to the power adapter is not watertight! Ensure it is always kept dry, and protected from water splashing!  
**CAUTION!** Keep all wire junctions dry!  
**WARNING!** Indoor use only!  
**CAUTION!** Do not attempt to disassemble, service or repair the water valve yourself!

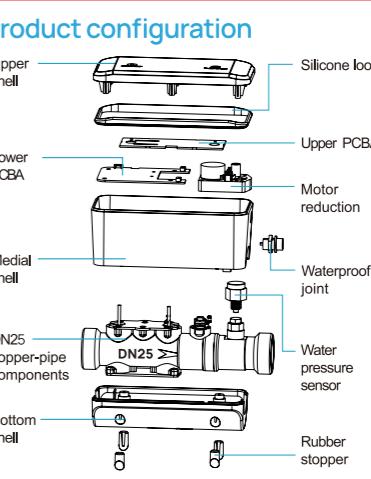
**Note:** The lowest detection temperature of water temperature is -10°C. When the water temperature is lower than 0°C, the water valve cannot be turned on/off.

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## Package contents

- ① Water valve x 1
- ② Power cable (2.5m) x 1
- ③ Sealing tape (3M) x 1
- ④ Spacers x 2
- ⑤ Connector x 2
- ⑥ Threaded protection cover (pre-install) x 2
- ⑦ Power supply adapter (DC 5V/2A) x 1
- ⑧ User manual x 1

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**Technical Specifications**

Power supply: DC 5V/2A  
Maximum working current: 800mA  
Standby power consumption: 0.3W  
Valve on/off time: 12 seconds  
Valve diameter: DN25 1 inch pipe  
Water temperature detection range: -10°C ~ 65°C (14°F ~ 149°F)  
Water temperature detection accuracy: ± 0.5°C (± 0.9°F)  
Water pressure range: 0 ~ 200 psi (0 ~ 1378.95KPa)  
Water pressure detection accuracy: ±1KPa  
Accuracy of water flow detection: 0.1gal (0.38l)  
Wireless frequency: 2.41 ~ 2.48GHz / 5.18 ~ 5.85GHz  
Wireless standard: IEEE802.11 a/b/g/n, IEEE802.11 a/1n/1ac  
Bluetooth version: Bluetooth 5.0  
Working temperature: 1°C ~ 65°C (34°F ~ 149°F)  
Working humidity: 1% ~ 95% RH  
Thread type: G1/1/4  
Waterproof level: IPX7  
Dimensions (LxWxH): 195x78x102mm / 7.7x3.1x4in

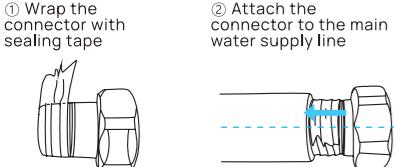
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## How to Install

### 1. Tools



### 2. Mounting the valve



③ Tighten the connector with the hex keys

④ Wrap water valve copper pipe with sealing tape

⑤ Put the spacer into the connector, and then dock the water valve copper pipe

⑥ Tighten the adapter nuts with the wrench

⑦ Single-sided installation completed

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### 2. Connecting the power supply

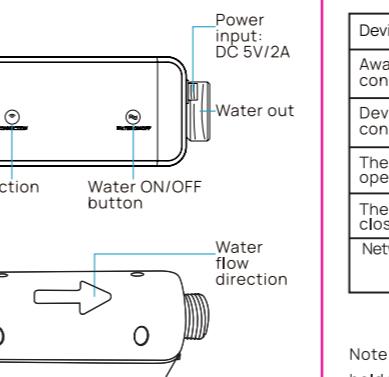
Step 1. Check the power supply interface slot.

Step 2. Align at the interface and press tightly.

Step 3. Tighten the nut by rotating it clockwise.

Note: The device can be powered by the power bank with power output DC 5V, 2A.

## Device overview



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## LED Indicators

Device state	Indicator status
Awaiting connection	The Connection button light flashes once every 2 seconds
Device is connected	The Connection button light is steady
The valve is opened	Water ON/OFF indicator light is green
The valve is closed	Water ON/OFF indicator light is red
Network reset	Press and hold the Connection button until the indicator light start to flash slowly. This operation reactivates AP and Bluetooth connection. After the device is re-connected, the indicator light becomes permanent.

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## Manual operation

Action	How to
Open the valve	Press the Water on/off button. The indicator light turns green.
Close the valve	Press the Water on/off button. The indicator light turns red.
Network reset	Press and hold the Connection button until the indicator light start to flash slowly. This operation reactivates AP and Bluetooth connection. After the device is re-connected, the indicator light becomes permanent.

## 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 App Store, or Google Play to install. The mobile application is free of charge, but you need to create a free account to use it.



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## Installation

- Open your Shelly Smart Control app.
- 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.
- Select "Add via Bluetooth" and press Next.
- When asked, enter your Wi-Fi network credentials and press Next.
- Wait until the process to complete; might take several minutes.
- Set a name for the device, and select a room to add it to.

## Main Controls tab

In Main controls tab you will find information about current water pressure, water temperature, and accumulated water consumption. The gauge on bottom of the screen shows the current volume flow rate.

The button to open or close the valve is located in the Main controls tab.

## Flow charts tab

You may find statistics for water flow rate, water temperature, and water consumption, including their maximal, minimal, and average value for a time period.

The charts can be adjusted to show the data for:

- last 24 hours
- last day
- last 7 days
- last week
- last 30 days
- last month

## Schedule tab

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

## Actions tab

Configure your device to interact with another device, or to perform an action when a certain predefined condition is met.

Example: When the water pressure drops under a certain level, the valve sends a signal to a pump to turn on, and keep the pressure in the system stable. It may send a signal to the pump to turn off when the pressure in the system exceeds a certain level to ensure the safe operation of the connected appliances.

## Virtual components tab

Here you may add various smart devices to interact with the valve, e.g. connect to Shelly BLU Button, and use it to open/close the valve instead of your phone.

Note: Virtual components can be edited only via the embedded interface (see Local-only operations).

## Sensor settings tab

### Unit change (Temperature, Water pressure, and Water volume units):

Change the measuring units for water pressure, water volume, or water temperature.

The changes made in this tab are global for the application.

### Alarms (Water Temperature Alarm, Water Pressure Alarm, and Water Volume Alarm):

The device will automatically perform a predefined action when the value falls outside the specified range.

Example: A minimal and maximal values for the water temperature are set. When the water temperature stays within those values, the valve is opened. Otherwise, it is closed.

The same logic applies to water pressure and water volume alarms.

## Valve Action on Power restored:

The valve offers a setting, which allows you to configure its behavior once the power supply is restored after a power outage. It can be set to open, close, or do nothing.

## Settings tab

Factory reset: Erases all changes made by the user, the device is removed from your account, and its settings are set to their factory state. After using this feature, the valve has to be re-added to your Shelly Smart Control application.

Device reboot: Reboots the software only; unlike turning the device on/off, this command does not change the valve position during process.

## Local-only operation

The valve has an embedded web interface to monitor control, and adjust its settings. It is accessible at <http://192.168.33.1> when connected directly to the valve access point, or at its IP address when accessed from the same network. How to access the embedded web interface:

- Search for a network with a name similar to Neo-[number] among the available Wi-Fi networks and connect to it.
- Enter the device's IP address: <http://192.168.33.1>
- You should see the device's embedded interface which looks similar to the mobile application.

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.

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## Declaration of conformity

Hereby, NEO Smart Technology (GuangDong) Co. LTD declares that the radio equipment type water valve NAS-WV02W is in compliance with Directive 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/neo-smw01-doc>

Manufacturer:  
NEO Smart Technology (GuangDong) Co. LTD  
Address: 7-10/Floor building 28th, Phase III, Le Chuang Cheng Industry Park, NO.29 LiCheng Industrial Avenue, Shuikou Street, HuiCheng District, HuiZhou  
E-mail: support@szneo.com

## FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 7' 3/4 or 20cm between the radiator & your body.

Note: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification or change to this equipment. Such modifications or change could void the user's authority to operate the equipment.

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.

## How to recycle

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.

Points de collecte sur [www.quefairedesdechets.fr](http://www.quefairedesdechets.fr). Privilégiez la réparation ou le don de votre appareil !



FCC ID: 2BQGENAS-WV02W

