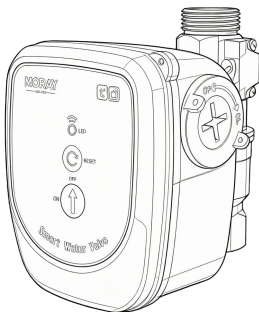


Instruction Manual

Smart Water Valve



ME220FW/ME220W

1.Overview

The ME220FW Smart Water Valve is an intelligent WiFi water valve with built-in water metering. In the mobile App, you can remotely switch the valve on/off, adjust opening from 0% to 100%, and monitor real-time water consumption and temperature. Supports timer, countdown, and power-off protection.

*Different from the **ME220FW**, the **ME220W** doesn't have the flow monitoring.*

2.Specification

MODEL	ME220FW	ME220W
Medium	Water, Air (Normal-Temperature)	
Network mode	2.4G WiFi Between sensor and router (max 50m no obstacle)	
Valve Diameter	DN15, DN20, DN25, DN32	
Connection Thread	BSP / NPT	
Max Pressure	1.0 MPa	
Valve Life	≤ 10,000 cycles	
On/Off Time	< 20 s	
Power Supply	AC 110V~240V 50/60Hz-5V/2A	
Operating Current	< 100 mA	
Max. Daily Flow	0 ~ 10,000 L	None
Max. Per Flow	0 ~ 5,000 L	None
Flow Accuracy	±5%	None
Water Unit	L / US Gallon / UK Gallon	None
Water Temp Range	0°C ~ 100°C (32°F ~ 212°F)	
Temp Accuracy	±2°C	
Temp. Unit	°C / °F	
Materials	PC & SS304	
Ambient Temp	-20°C ~ 70°C (-4°F ~ 158°F)	
Waterproof Rating	IP67	
Rust prevention	Yes	

3.Panel Introduction



Flow body:

ME220FW only

LED: WiFi status

WiFi Config: flashes rapidly

WiFi Connected: light on

WiFi Not Connected: flashes slowly

Touch Key (Reset):

Press 5 seconds for WiFi connection

Valve body

4.Connection

4.1. First connect the the AC/DC ADAPTOR and the Water Valve cables, and then power on, the Water Valve's led light flashes rapidly

4.2. Scan code to download “TUYA Smart APP” or “Smart Life APP” on mobile device.



4.3.Network Reset

Press and hold the button () for 5s, the led light flashes rapidly, then release the button, the network reset, the device connect to the network automatically.

4.4.Connecting Water Valve to APP.

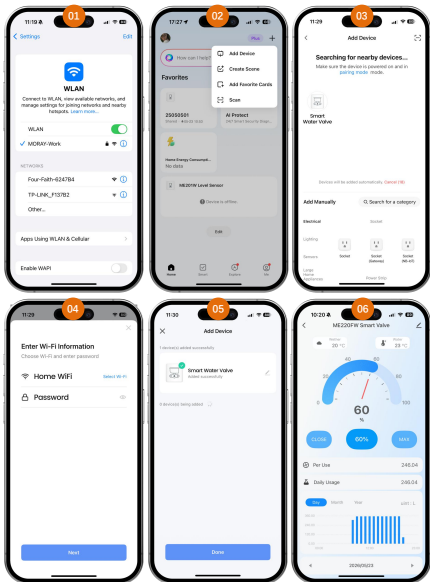
Turn on the WiFi and Bluetooth of your phone, enter the APP and add device.

***Note:**

4.4.1. WiFi frequency can only be 2.4GHz, not 5GHz;

4.4.2. When adding a device, make sure that the sensor and the phone are connected to the same WiFi. After the setting is complete, the indicator must work under

steady light. If the phone cannot find the device or fails to connect to the device, hold down the button for 5s until the indicator flashes to add the device again.



01-Turn on mobile WiFi & Bluetooth

02-Add device

03-Connect Level Sensor

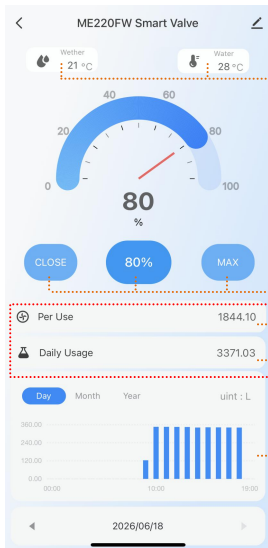
04-Enter WiFi password

05-Click on the Level Sensor

06-Enter the liquid level interface

5.Features Page

Page Description--ME220FW



Wether / Water Temperature

Real-time Wether / water temperature change monitoring. (Click to enter the chart page)

CLOSE:

Close the water valve, the setting value is 0%

80%:

The current water valve opening is 80%

MAX:

Open the water valve, the setting value is 100%

Per Use:

Water consumption per valve opening

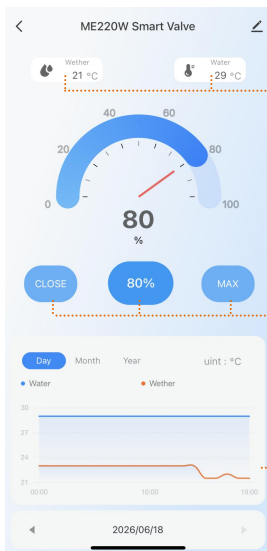
Daily Usage:

Accumulated water consumption per day

Water Consumption Statistics

Record Real-Time Water Consumption, you can check water usage volume in each day, each month, each year

Page Description--ME220W



Real-time Wether / Water Temp

CLOSE:

Close the water valve, the setting value is 0%

80%:

The current water valve opening is 80%

MAX:

Open the water valve, the setting value is 100%

Wether / Water Temperature Curve

Real-time Wether / water temperature change monitoring.

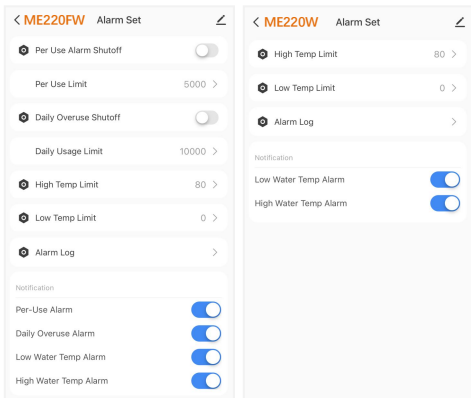
Set Page-"Alarm Set"

Just set up the "Per Use Limit" water yield or "Daily Usage Limit" water yield in the app, the water valve will be off automatically when the water yield over the setted value, the app will send an alert notification.

Per Use Limit: 0~5000L

Daily Usage Limit: 0-10000L

Just set up the "High Temp Limit" or "Low Temp Limit" in the app; when the water temperature over the setted value, the app will send an alert notification.



Set Page-"Rust Protection"

Enable the rust removal function; whilst the power is on, rust removal will be performed automatically once a month.



Set Page-"Schedule Valve" and "Close Valve Countdown"

Supports scheduled valve opening and closing, and countdown valve closing.

<

Add Schedule

Save

09	52
10	53
11	54
12	55
13	56
14	57
15	58

Repeat

Once >

Note

>

Notification

☐

Valve Opening %

0 >

Close Valve Countdown

1

01

2

02

3

03

4

04

5

05

6

hour

06

min

7

07

8

08

9

09

10

10

11

11

Cancel

Confirm

Set Page-"Power-Off Valve Status"

The valve is preset to This valve is preset to maintain its current state if power failure,and you also can change the preset in SETTING

Power-Off Valve Status

Close

Max

Hold ☒

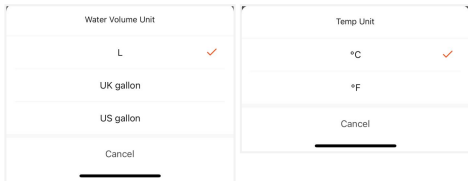
Cancel

Set Page-"Water Volume Unit"

The unit of water volume can be switched: "L"、"UK gallon"、"US gallon".

Set Page-"Temp Unit"

The unit of water temp can be switched: "°C"、"°F".



Set Page-"Self Check"

When the Valve is powered up for the first time, it will perform a self-test of the valve opening and closing functions.



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