

ECO FLOW Water Leakage Protector  
**Installation instruction**



Please read this manual carefully before use  
This manual contains services, please keep it safe  
Version :V1.0

## Viii. Transportation and Storage

1. Handle the instrument carefully during transportation to avoid severe impact.
2. The storage environment temperature (5-55)C, relative humidity less than 80%, protect against strong electromagnetic field and direct sunlight.
3. The products should be at least 30cm away from the ground, at least 1m away from the walls, and at least 2m away from the heating equipment.
4. Keep the space dry, free of corrosive goods, gas and dangerous goods.

### Warranty card

Dear customers:

Thank you for using this product.

The product shall be guaranteed for one year from the date of purchase (except for the adverse results caused by accidents or human factors). In order to ensure that you fully enjoy the perfect consumer rights, please carefully read and correctly fill in this card after purchase, and keep the invoice and specifica-

Product name	Type
User name	Contact number
Contact address	
Purchasing location	
Purchasing time(In line with invoice date)	
Invoice No.	
Name of Specified Service Provider	
Contact number	
Contact address	

Caution: If you find product quality problems and failures, please contact the special maintenance Department, do not disassemble, man-made product problems or accidents, the factory does not assume any responsibil-

iPhone

1)AP Network allocation: On the "My Devices" screen, tap "+" to enter the "Add Device" screen, tap "AP Network allocation" to enter the "Bind Device" screen, and enter the Wi-Fi password. Click "Next", and the prompt "Please connect Wi-Fi to the device AP SSID:bsk\_softap, and then return to APP" appears. Manually enter the WLAN Settings, connect the network to "bsk\_softap", and return to the APP application. After the network configuration is successful, device information will be displayed on the "My Devices" interface.

2)SmartLink Network Configuration: On the My Devices page, tap + to switch to the Add Device page, tap Smartlink Network Configuration to switch to the Bind Device page, enter the Wi-Fi password, and tap Next. After the network configuration is successful, device information is displayed on the My Devices page. Please go to "Product Description" in the "My page" of the APP to learn about the operation and functions of the APP.

Remarks:

1) Products whose production date is after May 1, 2021 (including May 1) only support the "AP network distribution" mode. Products whose production date is earlier than this date only support the "SmartLink network distribution" mode. Production date refer to the equipment serial number No.6 to No.11,6-7 represents the year, 8-9 represents the month, 10-11 represents the day.

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## I . Product Introduction

ECO LOW is a new intelligent water leakage protection system based on the principle of ultrasonic time difference for flow monitoring and multi-mode water leakage protection scheme, which can accurately judge household water conditions. The water leakage protector can be equipped with built-in WIFI and radio frequency communication module (optional). It can remotely control the device and the understanding of the household water use situation through the APP or the indoor control device through the elf, which is convenient for users to manage the abnormal household water use and real-time control of the device.

This product is suitable for families, hotels, apartments and other places, installed in the front end of the water pipe (after the water meter), the product needs to be connected to the power or battery before use.

This product is allowed through the medium of water, not allowed to be used other media except water supply system, such as alcohol, oil, etc.

## II . Product Feature

- ③ The principle of ultrasonic time difference method is adopted, the measuring parts have no moving parts, the pressure loss is small, the monitoring accuracy is high, and the service life is long.
- ③ According to the different household water wading equipment, there are six modes, including user mode and professional mode, to meet the different water consumption conditions of users and reduce the probability of false alarm and missing alarm.
- ③ Dual circuit design, the standard power adapter can be attached to the battery box, to avoid the loss of water leakage caused by power failure or power supply failure.
- ③ High range ratio, working water monitoring range :2.0L-4000L/H, can real-time monitoring household leakage, leakage pipe explosion and other abnormal conditions, to ensure the safety of household water.
- ③ There are four magnet induction keys on the left and right sides of the screen to prevent misoperation by non-users.
- ③ Built-in large capacity storage AI chip, the mode setting has memory function.

## VII. APP download and pairing

AI Water Protector APP (hereinafter referred to as APP) is an auxiliary application of Water Wise Shield, which can help supervise and control AI water protector, and enjoy more functional experience and all-round security protection brought by AI water protector;

1. Connect the water leakage protector A to the power adapter.
2. APP download: Android users: Please use the browser to scan code download; For Apple users: search "AI Water protector" in APP store or scan the QR code below with wechat scan function.

Android



IOS



3. Turn on WIFI on the phone to ensure that the signal is stable and connected
4. Open the APP, register the APP and log in according to the user's situation;
5. Touch the reading button of the AI water protector with the magnet. After the screen is lit up, touch the reading button for 10 seconds for a long time.

Android phone:

- 1)AP Network Distribution: On the "My Device" interface, click "+", select "AP network Distribution" to enter the "Add Device" interface, click "Add Device distribution" to enter the "Bind Device" interface, enter the WIFI password, click "Configure the device to access the Internet, the prompt box" Please manually connect the SSID of the module! To access the WLAN Settings screen, select bsk\_softap network from the list, and return to the APP application. After the network is configured successfully, device information is displayed on the My Devices screen.
- 2)SmartLink Network Configuration: On the My Devices screen, tap + and select smartLink Network Configuration. On the Bind Device screen, enter the WIFI password, and tap Configure the Device to access the Internet. After the network configuration is successful, the My Devices screen displays the device information.

#### Four. Analysis and elimination of common failures

Failure type	Failure reason	Method
Power failure	Battery undervoltage or poor connection	Check the connection plug and replace the battery
Blank pipe failure	There is no water in the pipe section or water does not fill the pipe section	Fill the tube section with water and remove air bubbles
Countercurrent failure	The inlet end and outlet end of the pipe section are inverted	Follow the marked water flow direction
Overrange failure	The current instantaneous traffic is too high	Reduce the flow rate or replace the meter for the corresponding range
EE failure	EE memory failure	Contact the manufacturer's technical personnel
Sensor failure	Ultrasonic sensor failure	Contact the manufacturer's technical personnel
APP offline	WIFI signal loss	1 Check whether the home WIFI is normal 2. Power on the device after unplugging the device. 3. Configure the network again

Serial number	Name	Number	Unit
1.	Water leakage protector	1	Set
2.	Installation attachment	1	Set
3.	Product instruction	1	Piece
4.	Product certification	1	Piece
5.	Nut	2	Piece
6.	Control magnet	2	Piece
7.	Power adaptor	1	Piece
8.	Battery box	1	Piece
9.	1 to 2 connector	1	Piece

### III. Technical Parameter and Components

Product name: AI water leakage protector

Product name: ECO FLOW

Type	configuration
A10-WY	AI water leakage protector-flagship
A10-W	AI water leakage protector+APP(WIFI)-Standard
A10-D	AI water leakage protector-Fundamental

Applicable water temperature:1-50 °C

Applicable water pressure:0.1-0.75MPa

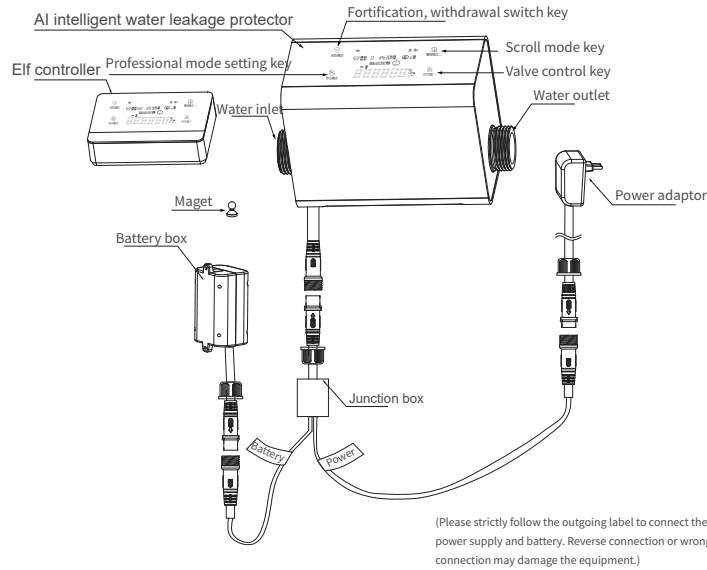
Product size:174x78x109mm

External power input:100-240V 50/60HZ 0.5A output:5V 1A

External battery:Non-rechargeable lithium battery 3.6V

Measuring range : 2.0L-4000L/H (This product is not measuring equipment, the data and information provided are for reference only)

Component drawing:

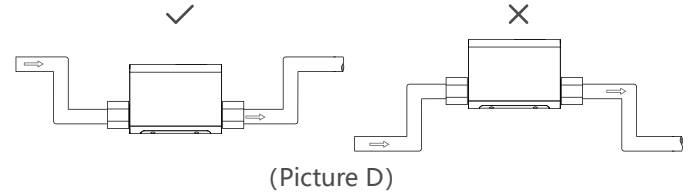


Mode usage: (Please set the appropriate mode according to the actual situation after installation)

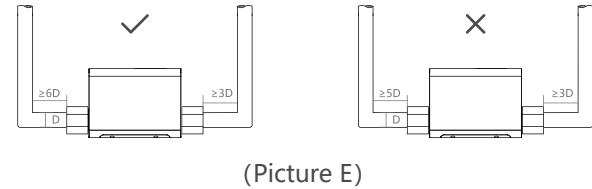
Mode	Applicable Scenery	Mode1	Mode2	Mode3
User mode	Suitable for high-rise residential centralized water supply users	Recommended for a family of 2 or a single apartment	Recommended for a family of 3-4 or a hotel apartment	Recommended for a family of 5-6 or a villa
Professional mode	Suitable for the installation of booster pump central level, water purifier, central water softener and other large water purification equipment users.			
Withdrawal mode	If you use water abnormally, set the fortification mode to disarming mode			

⚠ Mode Applicable Scenery Mode 1 Mode 2 Mode 3 User mode Suitable- for high-rise residential centralized water supply users. Recommended for a family of 2 or a single apartment. Recommended for a family of 3-4 or a hotel apartment. Recommended for a family of 5-6 or a estate homes. Professional mode Suitable for the installation of booster pump central level, water purifier, central water softener and other large water purification equipment users. Withdrawal mode if you use water abnormally, set the fortification mode to disarming mode.

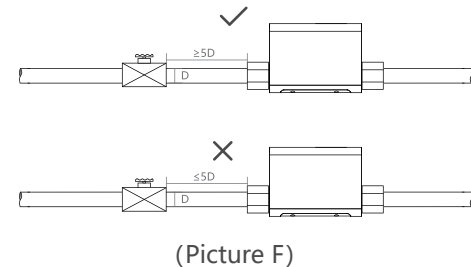
(2) When the AI water leakage protector is installed at the "U" shaped pipe, please install the AI water leakage protector at the lowest place, because the pipe may gather air at a high place, resulting in inaccurate or non-monitoring of the AI water leakage protector (as shown in Figure D).



(3) When the AI water leakage protector is installed at the bend, it must be ensured that the distance between the front straight pipe is 25 times of pipe diameter and the back straight pipe is 23 times of pipe diameter, otherwise it may cause inaccurate monitoring of the AI water leakage protector (as shown in Figure E).



(4) When installing valves or other objects in front of the AI water leakage protector, it must be ensured that there is a distance of 25 times the diameter between the AI water leakage protector and the object, otherwise it may cause inaccurate or non-monitoring of the AI water leakage protector; (as shown in Figure F)

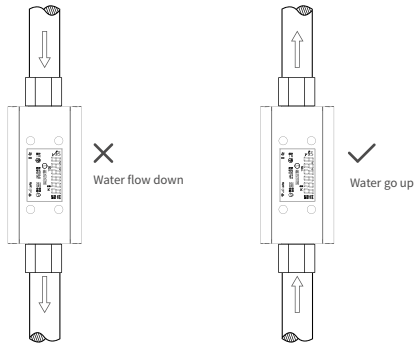


## 2. Precautions before installation

- (1) Before installing the AI water leakage protector, the pipeline must be thoroughly cleaned to avoid debris damage to the AI water leakage protector;
- (2) AI water leakage protector is a relatively valuable and precise product. It must be picked up and put down carefully. It is forbidden to directly pull the sensor line; It is strictly prohibited to be near high temperature heat source (such as electric welding, to prevent battery explosion injury and damage to the product);
- (3) A water leakage protector installation position should pay special attention to avoid AI water leakage protector installed at the upper end of the pipeline (there will be bubbles in the pipe section), avoid installation near the elbow (will produce vortex flow, should be far away from the pump and other equipment (will cause pulse flow));
- (4) The connecting pipes at the upstream and downstream of AI water leakage protector should be consistent with the caliber of the water meter Reduce diameter;
- (5) The direction marked on the body of AI water leakage protector is the direction of water flow; Shall not be inverted;
- (6) It is recommended that the front end of the water leakage protector be equipped with a filter of the corresponding caliber; The corresponding caliber valve is installed before the product and it can be separated from the product for the convenience of future maintenance and repair.

## 3. Precautions before installation

- (1) When the product is installed vertically, it must be installed on the straight pipe with the water flowing upward, because the pipe with the water flowing downward will be affected by the gravity of earth, which will cause the phenomenon that the water in the pipeline cannot be filled, which will lead to inaccurate monitoring of AI water leakage protector or even no monitoring (as shown in Figure C).



(Picture C)

## IV. operation interface and key operation instructions

### Scroll mode key:

Touch the screen lightly to light it up, and then touch it for 10 seconds to enter the network distribution mode.

In the mode of fortification 1, 2, 3: under the condition of light, then touch to check the flow rate, temperature, pressure, total flow rate, fault, flow rate in turn;

In defense mode 4, 5, 6: under the condition of light, then tap to check the flow rate, temperature, current continuous cumulative time value, pressure, total flow rate, fault, flow rate successively.

### On-off valve keys:

It can be operated only when the screen is lit. The valve can be switched on and off after 3 seconds of long touch. It cannot be triggered again within 1 minute

### Fortify/withdraw key:

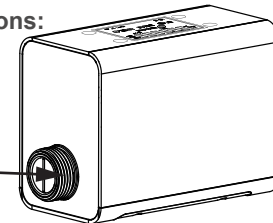
When the screen is lit up, touch the "Fortification/Withdrawal button" to switch between fortification and withdrawal (Note: The alarm must be cleared when the alarm is changed from fortification to withdrawal). When the screen is lit up, touch the "Fortification/withdrawal button" for a long time in fortification mode and the current fortification value jumps for 3 seconds (no operation exits the editing mode within 3 minutes, and the current fortification value returns to the pre-editing mode) to enter fortification mode for adjustment. Tap the Flip Mode button again to enter the adjustment sequence of 3-4-5-6-1-2, tap the switch valve button to enter the adjustment sequence of 1-6-5-4-3-2, tap the "Guard/Disguard" button to confirm when jumping, tap the "Professional Mode" button to exit the editing mode when jumping.

### Professional Mode key:

For fortification 4, 5, and 6 modes, touch the "Professional Mode key" for 3 seconds to adjust the professional mode (touch the "Fortification/withdrawal key" when adjusting the professional mode to exit the current mode and restore the data set last time) The current continuous cumulative time value unit H when jumping, touch the "Flip mode key" and add 0.1H(maximum 3H). Tap the "on/off valve key" to reduce by 0.1H(minimum 1H), press the "Professional Mode key" again to confirm the current setting, and exit the current editing mode when tapping or long touching the other three keys.

### Product water inlet instructions:

The insert end is the water inlet



### Matters needing attention

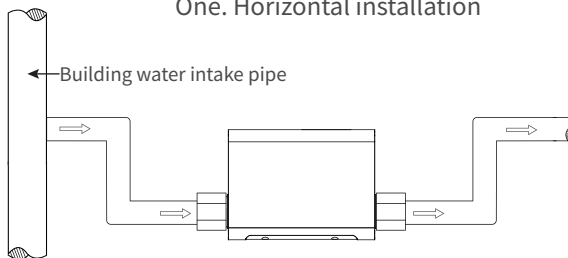
1. After the machine is powered on, check whether the ball valve is opened once. If it is closed, open the valve.
2. Battery alarm description: When the screen is lit up, the icon flashes for 1S under voltage; After battery alarm Perform valve closing.
3. The operation interval of the On/Off valve key in the APP is at least 60 seconds. 4. To prevent the ball valve from being stuck for a long time, the system switches on and off the valve once a month at 3:00 a.m. on the 1st and 15th of each month, within one minute.

### Errors:

E0	Power failure	E3	Overrange failure
E1	Blank pipe failure	E4	Water temperature failure
E2	Countercurrent failure	EE	Memory failure

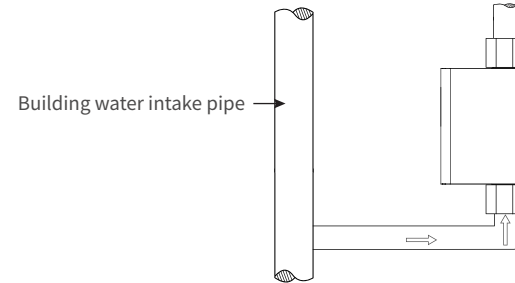
## V. Product installation instructions

### One. Horizontal installation



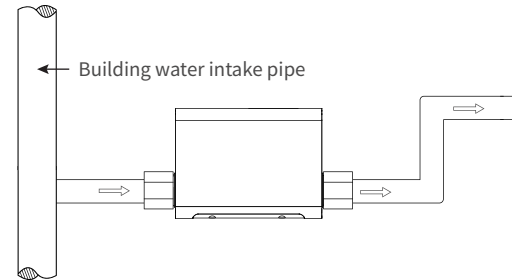
If the pipe is installed horizontally, you are advised to install the pipe in the U shape. In this case, the AI water leakage protector section in the lower part of the tube can remain full.

### Two. Vertical installation



When installed vertically, as shown in the figure above, the water flow direction at the AI water leakage protector is water at the lower end and water at the upper end. In this case, when water flows through, bubbles can be avoided from gathering in the AI water leakage protector measuring pipe.

The compromised installation mode (horizontal) is limited by the objective conditions of the site. If it is really difficult to implement the recommended horizontal installation conditions, the installation mode should be at least as shown in the following figure.



In the figure, the pipe segment in front of the AI water leakage protector can be parallel to the body of the water leakage protector (compared to the recommended method, the right Angle bending structure is eliminated), but the pipe at the back end of the AI water leakage protector must be laid out as shown in the figure to avoid the accumulation of bubbles in the pipe.