

USER MANUAL



Welcome to the **HOMGAR** family! Please read the manual before using to learn about the features and functions.

Have Questions?



Email: after-service@baldr.com



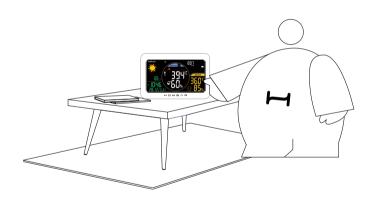
USA Tel.: 1-833-381-5659



Device models:

- HWS388 Weather Station Gateway H999TH Indoor Sensor
- H666TH Outdoor Sensor
- HTV103 1-ZONE Water Timer
- HCS005 Soil Moisture Sensor

- H0386 Smart Clock
 - HTV203 2-ZONE Water Timer





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1. Specifications

1.1 Wireless Specifications

Transmission distance of RF signal (in open air):

Outdoor/Indoor Sensor/Smart Clock: up to 330 feet(100m).

Water Timer/Soil Sensor: up to 196 feet(60m).

Update Rate: Outdoor/ Indoor Sensor: 2 minutes.

Water Timer: real-time Soil Sensor: 8 minutes.

• RF Frequency: 433.92 MHz.

· Wi-Fi Band: 2.4 GHz only.

*Obstacles such as walls, trees, and hills can cause significant signal loss.

*Water in the air (humidity) can absorb RF energy.

1.2 Measurement Specifications



HWS388



H666TH

H999TH

Weather Station Gateway/Outdoor Sensor/Indoor Sensor Specifications			
Measurement	Range	Accuracy	Resolution
Indoor Temperature	-9.9°C~50°C (14°F~122°F)	±1°C(±3.6°F)	0.1°C(0.2°F)
Outdoor Temperature	-40°C~+60°C (-40°F~140°F)	±1°C(±3.6°F)	0.1°C(0.2°F)
Indoor Humidity	1%RH~99%RH	±5%RH	1%
Outdoor Humidity	1%RH~99%RH	±5%RH	1%
Barometric Pressure	850~1050 hPa/mb (638~788 mmHg, 25.10~31.01 inHg)	±5 hPa/mb (±3.75 mmHg, ±0.148 inHg)	1hPa/mb (0.01 inHg, 0.1mmHg)









Water Timer/Soil Sensor Specifications		
Measurement Range		
Working Water Pressure	0.5 bar to 8 bar(7.25-116.03PSI)	
Working Temperature	3°C-50°C (37°F-122°F)	
Waterproof Level	IP54 (water timer) IPX5 (soil sensor)	
Flow Rate	5L/min to 35L/min	
Auto Watering	from 1 min to 60 mins	
Manual Watering	from 1 min to 11h59m	

1.3 Power Supply

- Weather Station Gateway: 5V DC adapter (included) or 3 x AA batteries (not included).
- Ourdoor/Indoor Sensor: 2 x AA batteries (not included).
- Water Timer: 4 x AA batteries (not included).
- Soil Sensor/Smart Clock: 3 x AAA batteries (not included).

Note: please use brand new alkaline batteries with high quality for better performance. Do not mixed using the old and new batteries. Heavy duty or rechargeable batteries are not recommended.



2.Work with HOMGAR™ APP

2.1 Wi-Fi Network Requirements

To assure your weather station gateway to connect to your Wi-Fi, it will need to meet the following requirements:

- Please make sure that your device is connecting with 2.4GHz Wi-Fi band before connecting your station to the HOMGAR™ app. The station has to keep staying under 2.4GHz Wi-Fi bands to work normally.
- When start and keep Wi-Fi connection, Weather station power adapter use is required for Wi-Fi connection.
- iOS Requirements: Mobile device with iOS 11.0 (or higher) with cellular or Wi-Fi service.
- Android Requirements: Mobile device with Android OS 6.0 (or higher) with cellular or Wi-Fi service.

Tips:

- Do not use public Wi-Fi networks.
- Your weather station gateway and mobile device need to be within 3m (10 feet) of each other during setup.
- If you need to change Wi-Fi network, press and hold 【+】 button and reconnect to HOMGAR™APP, enter your new Wi-Fi network's login information.

2.2 Install APP

HOMGAR™ APP downloads:

or scan the QR code to download:







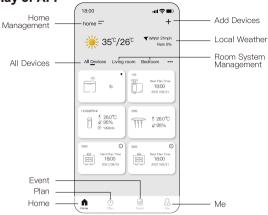


· Create an account and log in:

Follow the instructions to sign up for your account or log in with your existing account and start matching devices!



2.3 Display of APP



Home Page







Plan Page

Event Page

Me Page



Home Management: Set home name, location and other information to manage your home environment monitoring system more intelligent and accurate.

All Devices: All added devices will be displayed here .

Room System Managemet: Related devices list of each room will be displayed here.

Weather Date: After setting the location of the home, the corresponding weather data will be displayed.

Add Devices: Add the HOMGAR series devices to start setup your smart home system.

Home: Your home page.

Plan: Displays all of your irrigation plans.

Event: The history events will be displayed here.

Me: Manage account, family, set APP language and other operations.

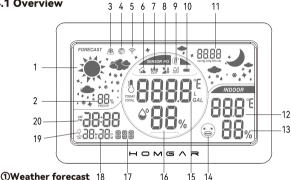
Notes: After the weather station gateway and its sub-devices are connected with the APP, the device will be displayed on your home page. You can click the page list to enter related device page, and set relevant programs on the page.





2.4 HWS388 Weather Station Gateway

2.4.1 Overview



②Rainfall probability

Range: 0%-99%

3Freezing point alert icon

The icon will flashing if temperature in 0°C~ 2.9°C(32°F~37.22°F). will keep displaying if temperature is lower than 0°C(32°F).

%Failed to connect to server icon

If this icon appears, please restart the device.

- **5WIFI** signal indication
- @Indoor sensor indication
- (7)Outdoor sensor indication
- ®Soil sensor indication
- Sensor channel display

Indicates that each channel will displays circulate every 5 seconds.

- **10**Low battery indicator of sensor
- 11) Barometric pressure

Displays in mmHg,inHg or hPa/mb.

- 12 Indoor temperature
- 13 Indoor humidity
- (Indoor comfort level indicator
- (5) Outdoor temperature



- **®Outdoor humidity**
- 1 Weekday abbreviation in 7 Languages
- **®Calendar**
- @ Current time

12/24 hour format selectable

To get accurate displays, please keep the devices away from any unusual heat or cold place and make sure the other sensors are also protected from direct sunlight, rain, or any heat places.

*Indoor comfort level indicator

••	DRY: Humidity ≤40%
•	COMFORT: 40% ≤Humidity≤ 70% 20°C(68°F) ≤Temperature≤ 28°C (82.4 °F)
(•••)	WET: Humidity ≥ 70%

*Weather forecast





- IT IS NOT THE CURRENT WEATHER.
- Please note that this forecast can't compare with professional weather services supported by satellites and high-performance computers.

2.4.2 Buttons Introduction

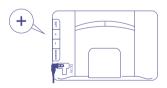
Buttons	Functions
[SET]	Normal Mode: • Press and hold to enter manual setting mode.



[+]	Normal Mode: • Press and hold to enter intelligent pairing mode, • Press and hold again to switch to AP pairing mode. Manual Setting Mode: • Press to increase value, • Press and hold to increase continuously.
[-]	Manual Setting Mode: Press to decrease value. Press and hold to decrease continuously.
[SENSOR]	Normal Mode: • Press to switch channel, • Press and hold to reconnect.
[0]	Normal Mode: • Press to enter Backlight Brightness Function. • Press and hold to turn ON/OFF Automatic Backlight Function. Manual Setting Mode: • Press to exist.

2.4.3 Connect to APP

• After power on the weather station gateway, press and hold [+] button until the gateway shows "SCAN" to get ready for pairing, then open the APP to finish the rest steps for connection:



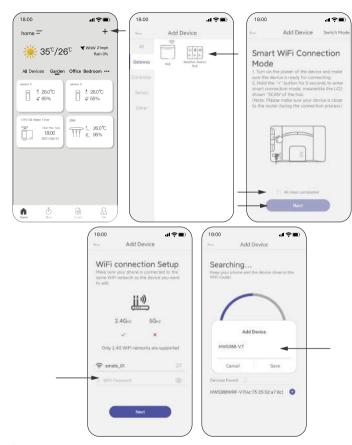


Different modes to connect:

• Method 1: Intelligent pairing mode

Pairing Order: "+" (Home page) → "Gateway" → "Weather Station Hub" → ☑ All steps completed → "Next" → set WIFI information with correct WIFI password → "+" → set device name → "Save".





-io-Note: If the network is not successfully paired within 120 seconds, press and hold the [+] button again to enter AP pairing mode to reconnect.





• Method 2: AP pairing mode

Pairing Order: "+" (Home page) \rightarrow "Gateway" \rightarrow "Weather Station Hub" \rightarrow "Switch Mode" (Smart WiFi Connection Mode page) $\rightarrow \square$ All steps completed \rightarrow "Next" \rightarrow set WIFI information with **correct WIFI password** \rightarrow "Go Connecting" to related hotspot \rightarrow " \leftarrow " (Connect your phone to the device page) \rightarrow "Next" \rightarrow set device name \rightarrow "Save".



- \(\) Note: If the pairing mode is successful, but the weather station gateway's screen displays "\(\) "icon. Please restart (i.e. re-power) the weather station gateway device, it will back to normal working.



 \bullet After the network is connected successfully, the screen display "JOIN" for 5 seconds.



2.4.4 Standalone Status Operations

When in stanalone status, you can set manually by:

- In normal mode, press and hold 【SET】 button on weather station gateway to enter setting mode.
- Press [SET] button to skip or move to next step. Press [+] or [-] button to adjust the value.

The setting order is: Weekday Language \rightarrow Pressure Unit \rightarrow °C/°F \rightarrow Year \rightarrow DM/MD Display Format \rightarrow Month \rightarrow Date \rightarrow 12/24H Time Format \rightarrow Hour \rightarrow Minute \rightarrow exit

2.4.5 Backlight Function

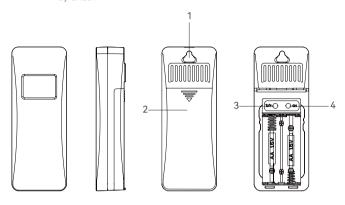
- When powered by batteries, press [) button to turn on the backlight, will last for 20 seconds.
- For continuous backlight, please use power adaptor press [2] button to switch brightness among 100%, 50%, 30%, 10% and OFF.
- Press and hold [] button to turn ON/OFF Automatic Backligt function.

2.5 H999TH Indoor/H666TH Outdoor Sensor

2.5.1 Overview

· H999TH indoor sensor



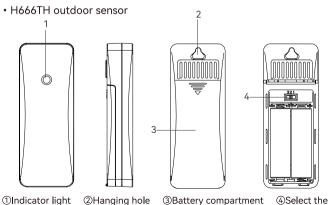


①Hanging hole ②Battery compartment ③°C/°F **4**CH channel switching

*Button Functions

[°C/°F] : press to select temperature unit.

[CH]: press to switch channel.

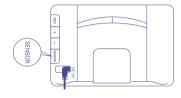


channel 1-2-3



2.5.2 Pair to Weather Station Gateway

• Set each sensor's channel in order, insert batteries in each sensor, press and hold the 【SENSOR】 button on the weather station gateway to get into pairing mode.









2.5.3 Installation

Make sure each sensor placed properly for accurate monitoring value by:

• This is forbidden, if the outdoor sensor is directly exposed to rain, facing direct sunlight and close to any heat source.











• Keep well-ventilated and leave a certain space of gap between the sensor and the wall to avoid blocking the vent of the sensor.







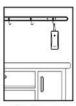
- Place the sensor at a height about 1.2-2.5 meters/3.93-8.20 feet vertically.
- You are near the sensor to connect the main unit. Avoid thick walls between the units or strong interference source using same signal frequency(433Ghz).(such as TVs, microwaves, computers, etc).
- If the main unit disconnects most likely the sensor is too far from the main unit. Please place it nearer to the sensor. Transmission Range: 100m/330ft Open Air. (The sensor is the unit that connects to the main unit and transfer the signal to the main unit.)
 - · Vertically placement is required:



Place on a stable surface



Hang from the back hole using a nail



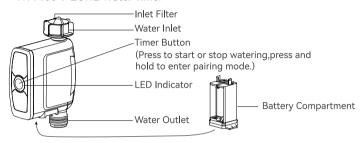
Lift with a rope



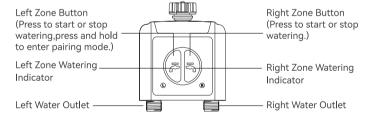
2.6 Add Water Timer

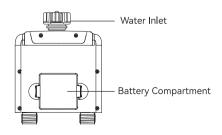
2.6.1 Overview

• HTV103 1-ZONE Water Timer



HTV203 2-7ONF Water Timer







HCS005 Soil Moisture Sensor



Left Button+Right Button: press and hold to restore ex-factory settings and restart.

Humidity Level: 0% 20% 40% 60% 80%100%

2.6.2 Add on APP

Setting Order: related Weather Station Gateway frame (Home page) \rightarrow "Sub-devices" \rightarrow "+"Add Device \rightarrow select the sub-device \rightarrow "Next" \rightarrow insert/reinsert batteries into Timer/Sensor \rightarrow follow the instructions on the APP page to complete the device addition.











2.6.3 Position of Soil Sensor

- After pairing and before using, please remove the black plastic protectors from the probes.
- Ensure the soil sensor is placed no more than 30 meters line of sight from the tap timer.
- If the soil is very compressed, it is recommended to soften up the soil by adding water before inserting.
- Ensure the probes are fully buried inside the soil.
- Ensure there is adequate drainage around the sensor.

3.APP Functions

3.1 Set Weather Data

Š Setting Order: "•••" (Home page)→ "Location"→"Get location"→"Save".





After the successful setting, the weather station gateway will synchronously update the weather forecast data, consistent with the family weather (It will obtain the weather data through the network and update every hour).

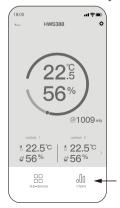


3.2 Set Weather Station Gateway



- 1: "All devices": add the sub devices, check sub devices datas.
- 2: "Charts":check curve chart of 24 Hours / 10 days/More.

Tip: Click"V"to select and switch to the item you need.







3: "to": enter setting page to edit the device name, view device information,set the display language of the weather station gateway, adjust Automatic backlight and so on.





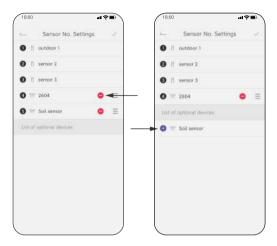
Tips:

- **UI DIY:** set the background image and font color at lower right corner of "UI DIY" page.
- Automatic backlight: set automatic backlighting time periods and backlight levels.
- LCD Language: set the Weekday abbreviation in 7 Languages on weather station gateway.
- Sensor NO. Settings: set channel 1/2/3 sensor, adjust the sorting of channel 4-9. Click " $\equiv \parallel$ "," \bigoplus " and " \bigoplus " to resort and exit.To re-add a device that has been removed from display, click "Re-add".









- Device Replacement: If the device is faulty, you can use the Device Replacement function to replace the faulty device with new one.Please pair the new device first, then select "Device Replacement" to replace the device as prompted by the APP.
- Receive Channel: The default channel is channel 1. If there are more gateways in an area (for example, a neighbor use same model's gateway), different receiving channels can be set to reduce the probability of communication conflicts.





3.3 Watering Setting

Click related Water Timer frame on Home Page to enter watering setting page.



- ①"Plan": enter irrigation schedule setting, click "+" to add irrigation schedule. "Rain Delay": all irrigation plans will be delayed by 24 hours.
- 2"Irrigation" or "Mist" :perform irrigation operations.
- ③"Statistics": view daily/monthly water usage statistics for your device.
- ④" ♥ ": enter setting page,you can set device name ,UI DIY,description ,mist mode,default duration time, pair the soil sensor ,water usage correction and so on.





Note: You can add descriptions of devices based on your preferences to understand the operating status of devices better. The edited description will be displayed on the list name of the home page and the home page of the sub-device.



Mist mode: Set the mist time and interval time of water timer.

Default duration time: the default manual irrigation duration of the device, ranging from 1 minute to 12 hours.

Pair the soil sensor: The soil sensor can detect the soil temperature and humidity value in real-time. After associating the soil sensor, the equipment will automatically adjust the irrigation plan according to the soil temperature and humidity value.

Water usage correction: You can calibrate the water accuracy according to your own needs.

3.4 Third-party Voice Service

3.4.1 Amazon Alexa

- Open the Alexa App on your phone, log in successfully and select "Skills&Games" on the **MORE** page.
- · Search for " Homgar Smart" and select it.
- Click "ENABLE TO USE" to enable Skill.
- After entering password of HOMGAR $^{\text{TM}}$ APP account ,click"Sign In"to bind your HOMGAR $^{\text{TM}}$ APP account, you can activate the Skill and start the smart home journey.

3.4.2 Google Assistant

- Open the Google Home app on your phone, sign in successfully, click on the "+" symbol in the top left corner, then click on the "Set up device" option and select the "Works with Google" option.
- Enter your account password via "Homgar Smart "to bundle your app account and grant it access to your Google account. You are ready to start your smart home journey.
- ightharpoons Note: Please refer to the detailed operations by Third-party voice service (Me page) in HOMGAR ™ APP.

3.5 Low Battery Indicator

When battery indicator **A** shows next to the related sensor, please replace whole new batteries in the sensor.



4.H0386 Smart Clock

4.1 Buttons Introduction

Buttons	Functions
[SET]	Normal Mode: • Press to switch Time Mode or Alarm Mode. Manual Setting Mode: • Press and hold to enter manual setting. Alarm Mode: • Press and hold to enter alarm setting.
[+]	Normal Mode: • Press to turn ON/OFF alarm function. • Press and hold to enter broadcast time reception. Manual Setting Mode/Alarm Mode: • Press to increase value. • Press and hold to increase continuously.
[-]	Normal Mode: • Press to turn ON/OFF alarm function. Manual Setting Mode/Alarm Mode: • Press to decrease value. • Press and hold to decrease continuously.
[TIMER]	Normal Mode: • Press to enter Timer Mode. Timer Mode: • Press and hold to enter timer setting.
[② ·�]	Normal Mode: • Press to turn ON backlight. Manual Setting Mode/Alarm Mode: • Press to exist. Timer Mode: • Press to start /stop counting-down. Broadcast Time Receiving Mode: • Press and hold to stop receiving.



After power on, it will connect to the weather station gateway and update the corresponding time data in 3 minutes, if fails, you can set it manually or it can work as independent device by following steps:

4.2 Manual Setting

- In normal mode, press and hold **[SET]** button to enter manual setting.
- Press [SET] button to skip or move to next step. Press [+] or [-] button to adjust the value.

The setting order is: 12/24H Time Format→Hour→Minute→Key Tone ON/OFF→exit.

• If no operation for 20 seconds, it will automatically save and/or exit, or you can touch top button any time to save and/or exit.

4.3 Alarm/Snooze Function

4.3.1 Alarm Function

- In normal mode, press [-] button to turn ON/OFF alarm function.
- In normal mode, press [SET] button to switch to Alarm Mode, then press and hold [SET] button to enter alarm setting.
- Press [SET] button to skip or move to next step. Press [+] or [-] button to adjust the value.

The setting order is: Hour→Minute→Snooze Interval (5-60 minutes)→ exit.

• When the alarm is ringing(last for 2 minutes), press any other button except 【② | 拿】 button to stop the alarm, and the alarm will restart next day.

4.3.2 Snooze Function

- When alarm is ringing, press the 【 ② | \Diamond 】 button to activate snooze function.
- When ringing again (last for 5minutes), press any other button except 【② | ۞ 】 button to exit the snooze mode.



4.4 Broadcast Time Reception

- In normal mode, press and hold [+] button to enter broadcast time reception.
- During receiving, press 【② | ♀】 button to stop.

4.5 Timer Function

- In normal mode, press 【TIMER】 button to enter Timer Mode. then press and hold 【TIMER】 button to enter timer setting.
- Press [TIMER] button to skip or move to next step. Press [+] or
 [-] button to adjust the value.

The setting order is: Hour→Minute→Second →exit (Up to 23:59:59).

• Press 【② 】 button to start or stop counting-down.

4.6 Backlight Function

• When powered by batteries,press【② | ۞】 button to turn on the backlight,will last for 8 seconds.

4.7 Low Battery Indicator

• When "LO" shows on the screen, please replace whole new batteries of the device.



5.Troubleshooting & Notes

5.1 Troubleshooting

Problem	Solution
Weather station gateway power problem	This weather station is designed to use adaptor (5V) as the main power source, and batteries used only as a backup. Replace a new adaptor. It is important to use the correct adaptor on all electronic equipment.
Outdoor sensor drains batteries quickly	1. Check the distance and resistance between the outdoor sensor and weather station. Outdoor sensors at the end of the range may work while batteries are fresh but not after they drain a bit. 2. Check for leaking batteries, which may damage the outdoor sensor. 3. Battery life is over 12 months when using reputable battery brands for Alkaline batteries.
Disconnection	Batteries often resolve the connection. Distance/Resistance can cause loss of connection between the sensors/sub-devices and the weather station gateway. Turn the weather station gateway 90 degrees towards the sensors/sub-devices to provide better reception. This allows more antenna surface to face the sensors/sub-devices signal. Try to restart the device and reconnect.
Device offline	Check if the battery is fully charged or the power supply is normal. Poor network signal or too far from the router.
The page displays the temperature value "HH.H/LL.L"	"HH.H/LL.L" is an indication when the temperature is higher/lower than the detection range.
Inaccurate tempera- ture/humidity reading	When the indoor temperature/humidity is inaccurate, it is often due to the location of the display or overpowered/under powered batteries.



5.2 Notes

- Please make sure to use 2.4GHZ band WIFI to connect to this product
- To operate smoothly and correctly, please place the weather station gateway on a stable plane for use.
- Do not mix old and new batteries or different types of batteries.
- Do not block the vent, insert fingers or any objects, as this may cause equipment failure or other conditions.
- Do not use the product near gas, heaters, microwave ovens and other positions that may cause interference.
- Do not wipe the screen with corrosive reagents which may affect the screen display.

6.Warranty

HOMGAR provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

For more help:

Email: after-service@baldr.com Hot-line: +1-833-3815659

7. FCC Statement

This device complies with part 15 of 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.

WARNING: 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: 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



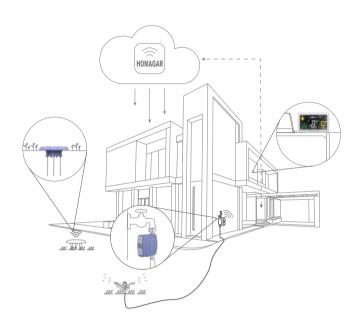
guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the 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. NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

RF exposure warning:

This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with Minimum distance 20cm between the radiator and your body.





Smart Home Keeper