

Water Leak Sensor

Model: WH55E

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1. Introduction

Thanks for purchasing this WH55E wireless multi-channel water leak detection sensor. The alarm will be triggered when water seepage is detected. The wireless signal can be received by the GW1000 Wi-Fi Gateway(sold separately) and the sensor data can be viewed on our WS View mobile application after the Wi-Fi configuration done. This device will also work with the HP2551/HP3500/HP3501 weather station(all sold separately) in the future.

To ensure the best product performance, please

read this manual and retain it for future reference.

2. Get Started

2.1 Parts List

One Multi-channel Water Leak Sensor

One User Manual

3. Overview

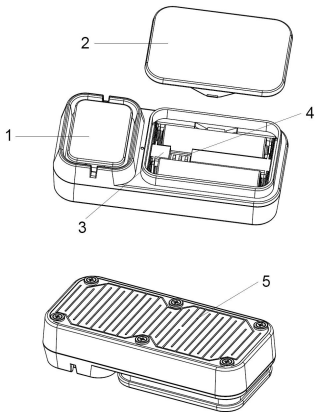


Figure 1: Multi-channel Water Leak Sensor

1	Buzzer (inside the device)
2.	Battery cover
3.	LED indicator
4.	Dip switches for multi-channel
5.	Sensor contact

Table : Sensor parts identification

3.1 Features

- Detects water seepage every 3 seconds.
- Emits loud alarm with 90dB once triggered.
- High or low sensor sensitivity selectable to meet different requirements.
- Works with GW1000 Wi-Fi gateway (sold separately) to complete the wifi configuration on WS View application.
- View live sensor data on the app once wifi configuration done.
- Email alerts available once the gateway device added successfully on our free Ecowitt Weather Server:
<https://www.ecowitt.net>.
- Each GW1000 gateway supports to add up

to 4 channels water leak sensors. Channel names can be edited both on the app and Ecowitt Weather Server.

- Battery power level display on the WS View App

4. Setup Guide

4.1 Install batteries

1.Remove the battery door on the back of the transmitter(s) by taking off the cover, as shown in Figure 2 .

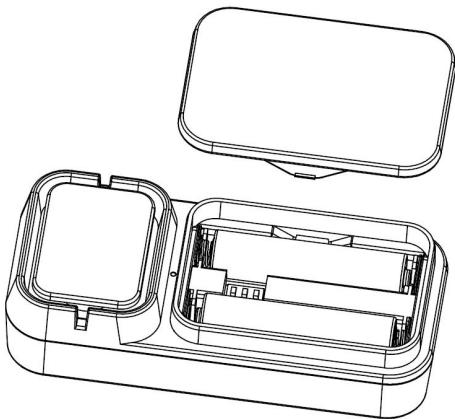


Figure 2: Battery installation

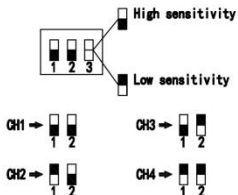
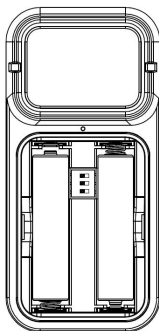
2. Before inserting the batteries, find the dip switches instruction above the battery compartment and set the sensor sensitivity level and channel number:

Sensitivity Level: To change the sensor sensitivity of detection (High or Low), change Dip Switch 3, as referenced in Figure 3.

High sensitivity: The water leakage alarm will be triggered when the detected water leak capacitance value equals to or over 60PF and be muted when the value equals to or lower 50PF.

Low sensitivity: The water leakage alarm will be triggered when the detected water leak capacitance value equals to or over 90PF and be muted when the value equals to or lower 80PF.

Channel Number: This device supports up to four sensors. To set each channel number, change Dip Switches 1 and 2 , as referenced in Figure 3.



 Switch in down position.
  Switch in up position.

Figure 3: Dip Switch diagram

3.Insert two 1.5V AAA batteries.

The LED indicator will turn on for four seconds and normally flash once every 60 seconds (the sensor transmission update period).

Note: If no LED light up or is lighted permanently, make sure the battery is inserted the correct way or a proper reset is happened. Do not install the batteries backwards. You can permanently damage the sensor.

4.Verify the correct channel number (CH) and sensor sensitivity level (High or Low) are

selected.

5. Close the battery door.

Repeat for the additional remote transmitters(sold separately), verifying each remote is on a different channel.

5. Sensor Placement

This device can be placed at multi locations include under-the-sink cabinet in a kitchen or bathroom, near a water heater, a basements, a sump pump, a toilet, a washer, a humidifier, an AC unit, or ice-making refrigerator.

6. Wi-Fi Configuration with gateway

If you want to view the water leak sensor data on your mobile application and receive email alerts on our weather server, you need to pair this device with our GW1000 Wi-Fi Gateway (sold separately).

6.1 Pair with Gateway

If the GW1000 has been in operation, and you have never had any WH55E multi-channel water leak sensor(s) setup before, just power up the sensor(s) and GW1000 will pick the sensor data automatically.

If one WH55E sensor has been hooked on GW1000 before, and you have a new WH55E sensor to replace the old one, just power off the old sensor and power on the new sensor, the gateway will pick up the new sensor data automatically.

Then you may go to the Sensor ID page of the app (requires the Wi-Fi configuration done first) to Re-register or disable sensor(s) to ensure it's on the correct channel you.

6.2 Wi-Fi Connection for the Gateway

For this part, please refer to the manual of the GW1000 Wi-Fi gateway.

Any question, please contact the customer service.

7. View Online Data with WS View

When the Wi-Fi configuration is done, you may view leakage detection condition as well as the sensor battery level on WS view App at the live data page.

Back	Live Data GW1000A-WIFI24AD		More
Indoor Temperature 26.2 °C		Indoor Humidity 56 %	
Absolute Pressure 1012.2 hPa		Relative Pressure 1012.2 hPa	
	CH1 Leak	Normal	
Firmware Version GW1000A_V1.5.5			

< Device List	Live Data	More
GW1000A-WIFI24AD		
Indoor Temperature 25.7 °C		Indoor Humidity 60 %
Absolute Pressure 1013.5 hPa		Relative Pressure 1013.5 hPa
	CH1 Leak	Normal
GW1000A_V1.5.5		

Note: It requires your phone and the gateway using the same network to view your sensor data on the WS View app.

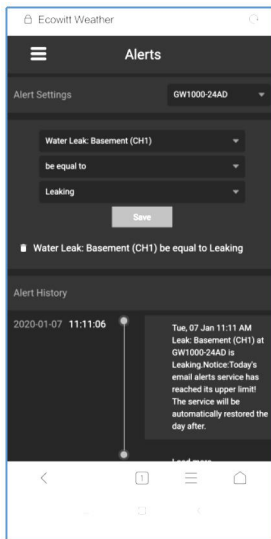
To remote monitor the sensor data, please upload the data to our free Ecowitt Weather Server: <https://www.ecowitt.net>.

Detailed operation instructions can be found on the GW1000 manual.

Any question, please feel free to contact our customer service at support@ecowitt.com

8. Set Email Alerts

Once your device added successfully on the Ecowitt Weather server, you may set alerts for the water leak sensor(s) on the website to get email notifications.



9.Specification

Power: 2X 1.5V AAA batteries(not included)

Sensor Size: 95x45x22.8mm

Frequency: 915/868/433Mhz(optional)

Wireless transmitting range: 100M(300feet)

Alarm Decibel: 90dB

Sensor detecting interval: 3 seconds

Sensor reporting interval: 60 seconds

Waterproof level: IP44

Working temperature: 0~50°C(32~122°F)

Note: Once water seepage is detected, the device will emit 90dB alarm, and the ecowitt.net will push email alerts at the same time.

10.Warranty Information

We disclaim any responsibility for any technical error or printing error, or the consequences thereof.

All trademarks and patents are recognized.

We provide a 1-year limited warranty on this product against manufacturing defects, or defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased, and only to the original purchaser of this product. To receive warranty service, the purchaser must contact us for problem determination and service procedures.

This limited warranty covers only actual defects within the product itself and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, or claims based on misrepresentation by the seller, or performance variations resulting from installation-related circumstances.

FCC Statement

Statement according to FCC part 15.19:

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.
- 2.This device must accept any interference received, including interference that may cause undesired operation.

Statement according to FCC part 15.21:

Modifications not expressly approved by this company could void the user's authority to

operate the equipment.

Statement according to FCC part 15.105:

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.

FCC ID: WA5WH55E