



Ecovitt WH55 Wireless Multi Channel Water Leak Detection Sensor User Manual

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Ecovitt WH55 Wireless Multi Channel Water Leak Detection Sensor



Product Information

The WH55 wireless multi-channel water leak detection sensor is designed to detect water seepage and trigger an alarm. The wireless signal can be received by a Wi-Fi Gateway (sold separately) and the sensor data can be viewed on our WS View Plus/ Ecovitt APP mobile application after the Wi-Fi configuration is completed. This device will also work with the HP2551/HP3500/HP3501 weather station (all sold separately) in the future. The sensor detects water seepage every 3 seconds and emits a loud alarm with 90dB once triggered. The sensor has high or low sensitivity selectable to meet different requirements. It works with a Wi-Fi gateway to complete the Wi-Fi configuration on the WS View Plus/ Ecovitt APP application. Each Wi-Fi gateway supports adding up to 4 channels of water leak sensors. Channel names can be edited both on the app and Ecovitt Weather Server. The battery power level display is available on the WS View Plus/ Ecovitt APP.

Product Usage Instructions

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.
2. Insert two AAA batteries into the battery compartment, making sure to match the polarity of the batteries to the markings inside the compartment.
3. Replace the battery door.

2. **Sensor Placement:** Place the sensor on a flat surface and ensure that the sensor contact is touching the surface to detect water seepage.

3. **Wi-Fi Configuration with gateway:** Connect the Wi-Fi gateway (sold separately) to your Wi-Fi network, and use the WS View Plus/Ecovitt APP to complete the Wi-Fi configuration. Once the configuration is done, you can view live sensor data on the app and receive email alerts if the gateway device is added successfully on our free Ecovitt Weather Server.

Instruction manuals



<https://www.ecowitt.com/support/download/67>.

Help

Our product is continuously changing and improving, particularly online services and associated applications. To download the latest manual and additional help, please contact our technical support team:

support@ecowitt.com

support.eu@ecowitt.net (EU/UK)

Introduction

Thanks for purchasing this WH55 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 Wi-Fi Gateway (sold separately) and the sensor data can be viewed on our WS View Plus/ Ecowitt APP mobile application after the Wi-Fi configuration is 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.

Get Started

Parts List

One Multi-channel Water Leak Sensor One User Manual

Overview

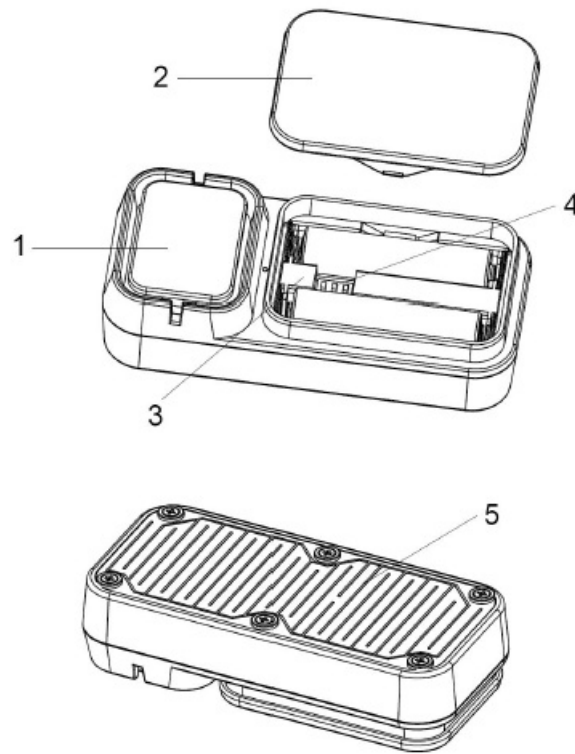


Figure 1: Multi-channel Water Leak Sensor

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

Table: Sensor parts identification

Features

- Detects water seepage every 3 seconds.
- Emits a loud alarm with 90dB once triggered.
- High or low sensor sensitivity is selectable to meet different requirements.
- Works with Wi-Fi gateway (sold separately) to complete the Wi-Fi configuration on the WS View Plus/ Ecowitt APP application.
- View live sensor data on the app once the Wi-Fi configuration is done.
- Email alerts available once the gateway device is added successfully on our free Ecowitt Weather Server: <https://www.ecowitt.net>.
- Each Wi-Fi gateway supports to add up to 4 channels of water leak sensors. Channel names can be edited both on the app and Ecowitt Weather Server.
- Battery power level display on the WS View Plus/ Ecowitt APP.

Setup Guide

Install batteries

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

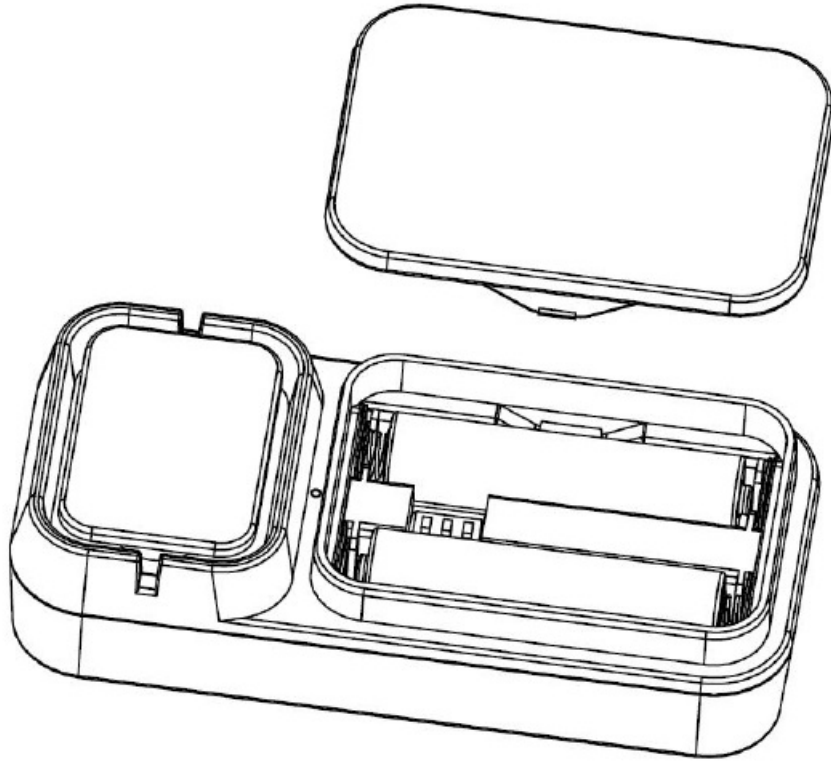


Figure 2: Battery installation

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 is lower than 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 is lower than 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.

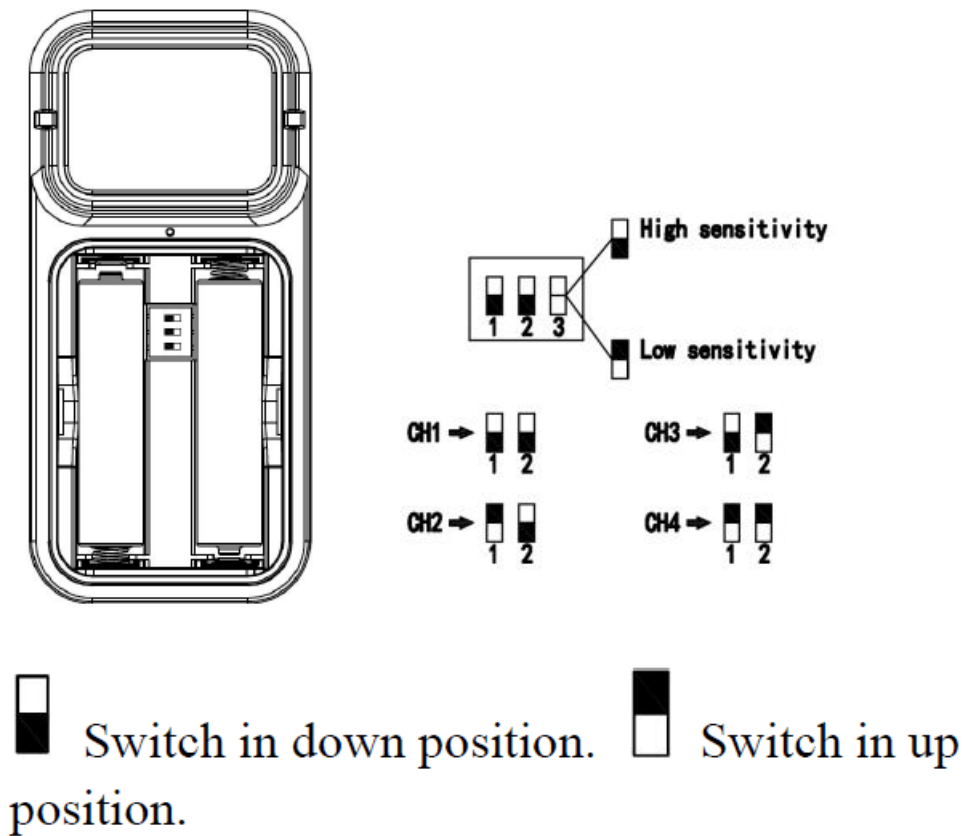


Figure 3: Dip Switch diagram

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 lights up or is lit permanently, make sure the battery is inserted the correct way, or a proper reset is happened. Do not install the batteries backward. 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.

Sensor Placement

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

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 Wi-Fi Gateway (sold separately).

Pair with Gateway

If the Wi-Fi Gateway has been in operation, and you have never had any WH55 multi-channel water leak sensor(s) setup before, just power up the sensor(s) and Wi-Fi Gateway will pick up the sensor data automatically.

If one WH55 sensor has been hooked on Wi-Fi Gateway before, and you have a new WH55 sensor to replace the old one, just power off the old sensor and power on the new sensor, and the gateway will pick up the new sensor data automatically.

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



Wi-Fi Connection for the Gateway




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

Any questions, please contact customer service.

View Online Data with WS View Plus/ Ecowitt APP

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

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

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

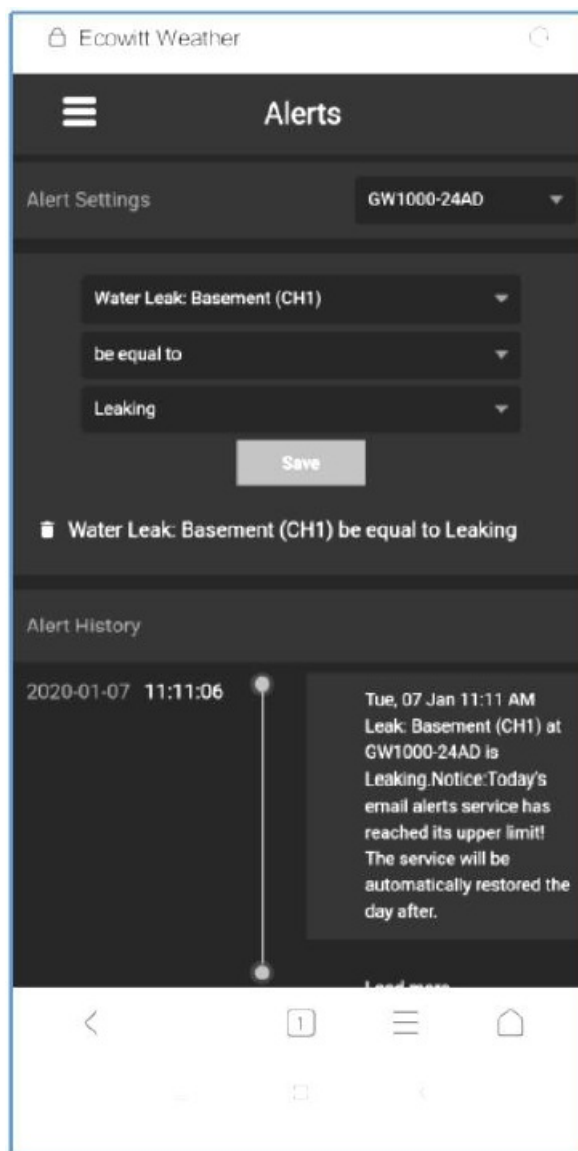
Note:

It requires your phone and the gateway using the same network to view your sensor data on the WS View Plus/Ecowitt APP.

- To remotely monitor the sensor data, please upload the data to our free Ecowitt Weather Server:
<https://www.ecowitt.net>.
- Detailed operation instructions can be found in the Wi-Fi Gateway manual.
- Any questions, please feel free to contact our customer service at support@ecowitt.com.

Set Email Alerts

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



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 a 90dB alarm, and ecowitt.net will push email alerts at the same time.

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 and 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.

Documents / Resources

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References

-  [ECOWITT Welcome to Ecowitt!](#)
-  [Ecowitt Weather](#)