

Wireless Outdoor Thermometer and Hygrometer Sensor

Model: WN32/WN32
(with STH35 probe)

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- *Please scan the QR code to read English manual and keep it for future reference
- *Bitte scannen Sie den QR-Code zudeutsche Anleitung lesen und aufbewahren für Zukunftsbezug
- *Si prega di scansionare il codice QR perleggi il manuale italiano e conservarlo perReferenza futura

Instruction manuals

<https://www.ecowitt.com/support/download/52>



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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)

1 Introduction

Thank you for purchasing this WN32/ WN32 (with STH35 probe) wireless outdoor thermometer and hygrometer sensor. This unit measures outdoor temperature, and humidity. The data can be received by the Wi-Fi Gateway (sold separately) and can be viewed using the WS View Plus/ Ecowitt APP mobile application (after Wi-Fi configuration on the gateway has been completed). The data from WN32 sensor will override the value that measured from WS69/WS80/ WS90/WS65 sensors.

WN32 (with STH35 probe) provides the same functions as WN32 except that it is produced with a STH35 sensor probe (+/-0.2C,+/-2% accuracy) instead of an onboard SHT30/40 sensor(+/-0.4C, +/-4.5%). The probe can be mounted

inside a SRS(solar radiation shields) and achieve better accuracy is possible.

Only one such sensor can be hosted on our ecosystems. If more than one sensor is needed, you should purchase WH31 multi- channel version sensor instead.

To ensure the best product performance, please read this manual and retain it for future reference.

2 Getting Started

2.1 Parts List

Inside the product packaging you should find the following:

QTY	Item Description
1	Outdoor Temperature and Humidity sensor
1	User Manual

Table 1: Package Content

If any component is missing or broken, please contact our Customer Service department to resolve the issue.

Note: Batteries for the sensor are **not included**. You will need 2 AA size alkaline batteries or nonchargeable Lithium batteries for cold climate areas. NiMh/ NiCd type rechargeable batteries are not allowed to be used.

3 Overview

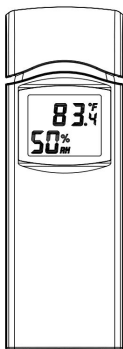


Figure 1: WN32

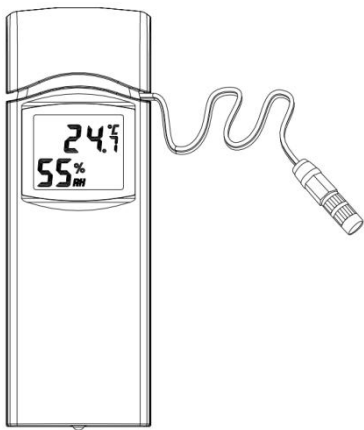


Figure 2: WN32 (with STH35 probe version)

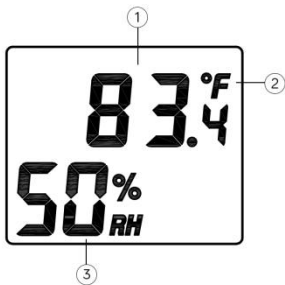


Figure 3: Sensor display layout

1. Temperature reading
2. Temperature unit
3. Relative Humidity (%)

4 Setup Guide

Note: To avoid permanent damage, please take note of the battery polarity before inserting the batteries.

Remove the battery door on the back of the sensor by sliding it in the direction of the arrow. Insert two AA batteries as described and put compartment door back and slide it in the opposite direction to lock.

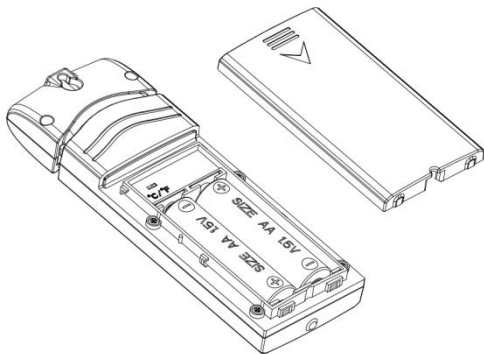


Figure 4: WN32 Sensor battery installation

Temperature Units: To change the transmitter display units of temperature measure ($^{\circ}\text{F}$ vs. $^{\circ}\text{C}$), change Dip Switch $^{\circ}\text{C}/^{\circ}\text{F}$, as referenced in Figure 4.

5 Sensor Placement

The sensor unit is not weatherproof and it should be placed in a location shielded from precipitation, sprinklers etc. (e.g. under an eave or awning).

Sensor locations chosen to avoid direct contact with water, as described above, will ensure the most accurate relative humidity readings.

To receive the most accurate temperature readings the unit should not be directly exposed to sun light (not even through a window) or be exposed to any nearby radiant heating (radiator, heater, metal surface in direct sunlight, etc.).

To mount or hang the unit on a wall or wood beam:

- Use a screw or nail to affix the remote sensor to the wall, as shown on the left side of Figure 4, or
- Hang the remote sensor using a

string, as shown in right side of Figure 4.

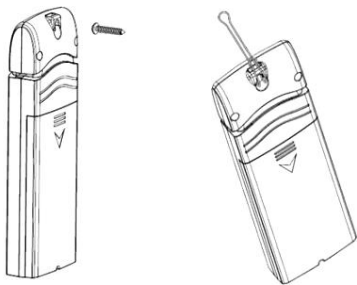


Figure 6: WN32 Sensor mounting

Note: Make sure the sensor is mounted vertically and not lying down on a flat surface. This will insure optimal transmission/reception. Wireless signals are impacted by distance, radio interference (caused by other weather stations, wireless phones, wireless routers,

televisions, computer screens and other electronics), and transmission barriers, such as walls. In general, wireless signals will not penetrate solid metal and earth (down a hill, for example).

6 Setup Guide using Wi-Fi Gateway

If you wish to view the sensor data on your mobile device, you need to pair this sensor device with the Wi-Fi Gateway (sold separately), or another compatible device.

Before you can use the mobile application to connect to the Wi-Fi Gateway, it must be configured on your Wi-Fi network. Instructions may be found in the gateway manual.

When the gateway has configured to wifi successfully, take the WN32/WN32 (STH35 probe) sensor close to the gateway(keep 5ft away from each other) and insert batteries into the WN32/WN32 (STH35 probe) sensor. Wait for 1-2 minutes, the sensor data will display on the Live Data page of the app then.

6.1 Replacing an existing sensor unit

If this sensor is a replacement for a previous unit, ensure the previous unit is powered down and follow the steps below:

- 1.Insert the batteries to power up the new sensor unit.
- 2.Open the WS View Plus/ Ecowitt APP– select Device List on Menu – select your device to enter Live Data page– Click More button – select Sensor ID.

Back	Sensors ID		More
	GW1000B-WIFI8BF		
	ID: 2f	 Re-register 	
	ID: 68	 Re-register 	
	ID: c49b	 Re-register 	
	T&H ID: 46	 Re-register 	
	ID: 1003b	 Re-register 	
	CH1 ID: bd	 Re-register 	
	CH2 ID: f	 Re-register 	
	CH3 ID: 2c	 Re-register 	
	CH4 ID: 30	 Re-register 	
	CH1 ID: f1	 Re-register 	
	CH2 ID: 81	 Re-register 	
	CH3 ID: 11	 Re-register 	
	CH4 ID:	 Re-register 	

Figure 5: WS View Plus Sensor ID Screen

3. Find the WN32/WN32 (with STH35 probe) sensor picture and click Re-register.
4. After 1-2 minutes, the new sensor ID will be displayed.
5. Back to the Live Data page and the new sensor data should display there.

It is best to always do this in the vicinity of the Wi-Fi Gateway to rule out distance or signal interference effects, and to move the unit to the final location once correct configuration is confirmed.

7 View Online Data on WS View Plus/ECOWITT APP

After correct Wi-Fi configuration on the gateway, you can view all sensor data on the “Live Data” screen of the WS View Plus/ ECOWITT APP application.



Figure 6: WS View Plus/ Ecowitt APP Live Data Screen (IOS & Android)

Note:

1. This sensor data supports uploads to WU/ WeatherCloud/WOW.

You can also choose to upload the data to our own weather server: <https://ww.ecowitt.net>, then you can view or download the history graph and records on the website.

If you already done that when configuring the WiFi gateway, you don't need to operate it again.

2. We have a similar product: WH31 Multi-channel Temp and Humidity sensor.

Here are the differences between WN32/WN32(with STH35 probe version) and WH31 sensor:

- 1.WN32/WN32 (STH35 probe) sensor worked as dedicated data for "Outdoor Temperature and Humidity".
- 2.The WH31 sensor works as "Multi-channel Temperature and Humidity" sensor. And maximum of 8 sensors can be hosted on a same receiver.
- 3.The WN32/WN32 (STH35probe) sensor data can be hosted on weather

underground, while WH31 data is not supported on WU.

4. Both the WN32/WN32(STH35 probe) and WH31 data can be uploaded to <https://www.ecowitt.net>.

8 Specification

- Power: 2 AA batteries (not included)
- Sensor Size: 123x42x14mm
- Frequency: 915/868/433 MHz (optional)
- Temperature range: -10°C ~ 60°C (14°F - 140°F)
- Temperature display resolution: 0.1°C, or 0.1°F
- Temperature accuracy: $\pm 0.5^\circ/\pm 0.2^\circ$ C
- Humidity range: 1% ~ 99%
- Humidity display resolution: 1%
- Humidity accuracy: $\pm 4.5\%/\pm 2\%$

- Sensor reporting interval: 64 seconds

9 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.