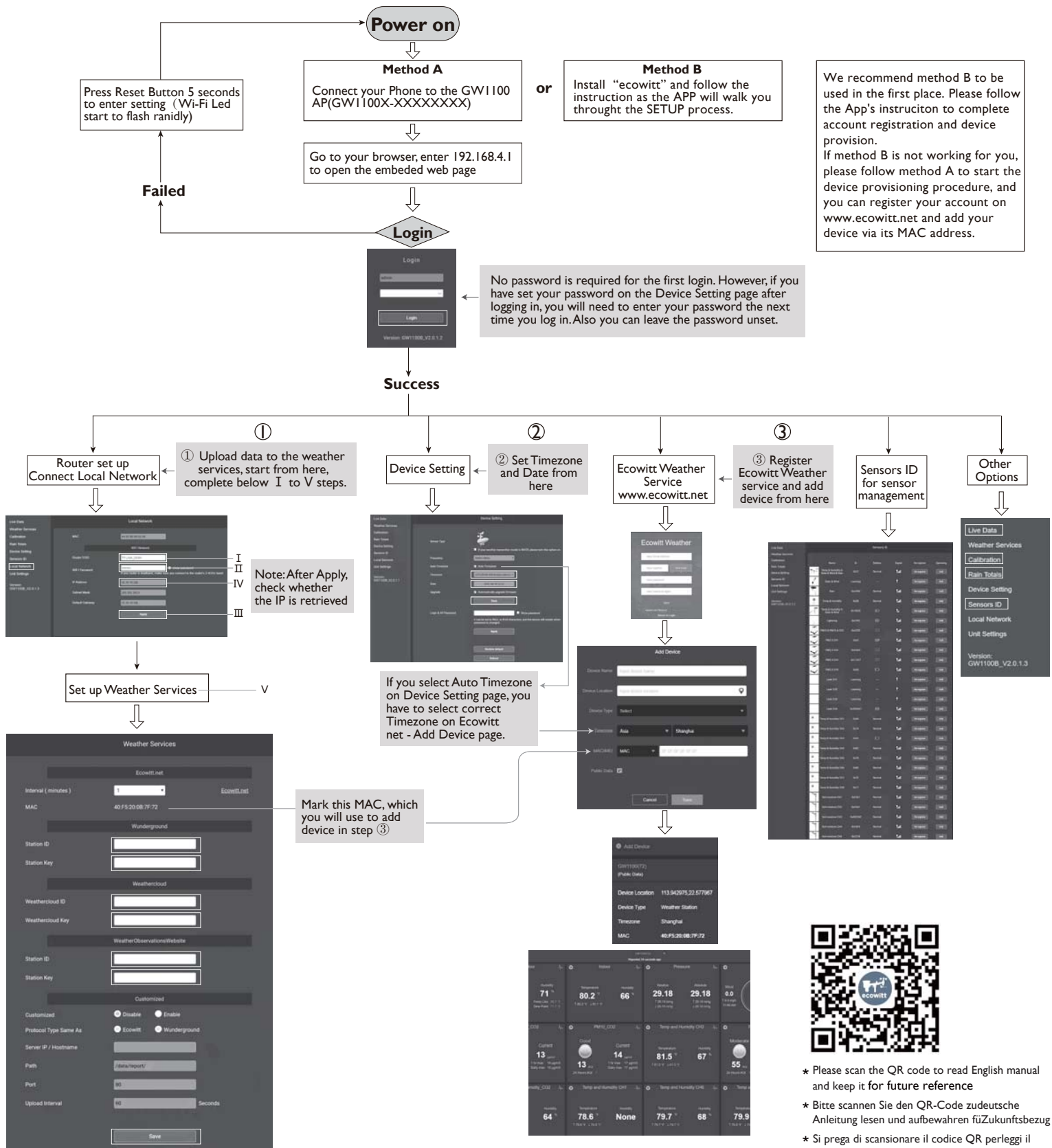


# GW1100 Quick Start Guide



**Attention:**  
Our product is continuously changing and improving, particularly online services and associated applications. To download the latest manual and additional help, please contact us at [support@ecowitt.com](mailto:support@ecowitt.com) or [support.eu@ecowitt.net](mailto:support.eu@ecowitt.net) (EU/UK).

**Manufacturer:**  
ShenZhen Shi Ou Sai Te Dian Zi You Xian Gong Si  
Add: C Dong 4 Ceng A, Minzhujijugongyecheng AQu, Xihuanlu, Shajingjiedao, Baoanqu Shenzhen, Guangdong 518101, CN  
E-mail: [support@ecowitt.com](mailto:support@ecowitt.com) [support.eu@ecowitt.net](mailto:support.eu@ecowitt.net) (EU/UK)

## UK representative

UK AR HUA TENG LIMITED  
3 Glass Street, Hareley, Stoke on Trent,  
ST1 2ET United Kingdom

## EC representative

EC REP AC WORKS CONSULTING Srl  
Via V8redo Pareto 125, 47521  
Casena (FC), ITALY

## Instruction manuals

<https://www.ecowitt.com/support/download/106>



MADE IN CHINA

GW1101,GW1102,GW1103,GW1104 Descriptions

Warning:

- Any metal object may attract a lightning strike, including your weather station mounting pole. Never install the weather station in a storm.
- If you are mounting the weather station to a house or structure, consult a licensed electrician for proper grounding. A direct lightning strike to a metal pole can damage or destroy your home and the product.
- Installing your weather station in a high location may result in injury or death. Perform as much of the initial check out and operation on the ground and inside a building or home. Only install the weather station on a clear, dry, day.
- Please setup the system and put the sensors in a conveniently accessible temporary location for a few days, familiar with the system and make sure the system operate normally before install them into a permanent position. When you mount the sensor, remember to take your phone and have the webpage showing the data displayed, before fixing to the mounting pole, be sure you can see the signal can be picked up by the GW1100 gateway reliably. So check out on site system data while you are mounting the sensors.

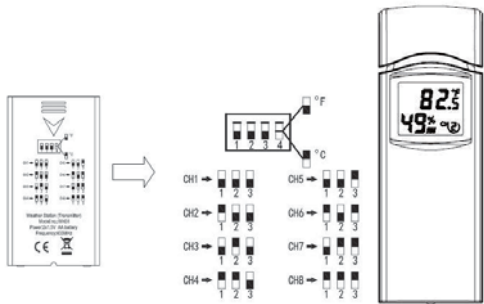
Model difference overview:

Sensor Matched		GW1100	GW1101	GW1102	GW1103	GW1104
Multi CH T&H	WH31					✓
Outdoor T&H	WH32			✓		
Rain Gauge	WH40			✓	✓	
Wind & Solar	WS68			✓		
Sensor Array	WS69		✓			
Sonic Wind	WS80				✓	

WH31&WH32

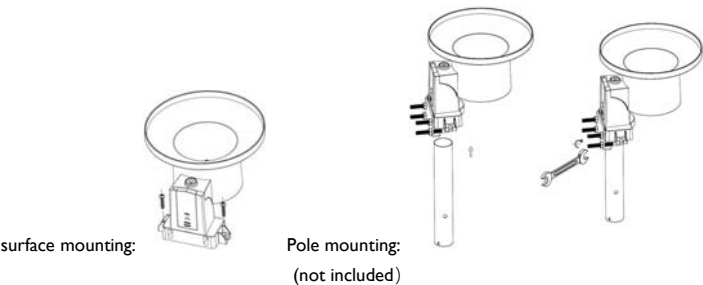
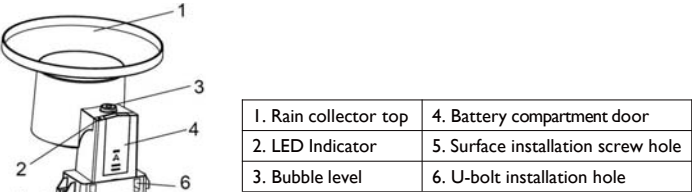
WH31 and WH32 looks quite similar, but with different function definition applied. WH32 is a dedicated outdoor temperature and humidity sensor; it has highest priority against WS69 or WS80 integrated sensor temperature and humidity data. WH31 is a dip switch selectable multi-channel temperature and humidity sensor. It supports maximum 8 channels. Sensor operates on 2pcs AA Alkaline batteries.

Switch in down position. Switch in up position.



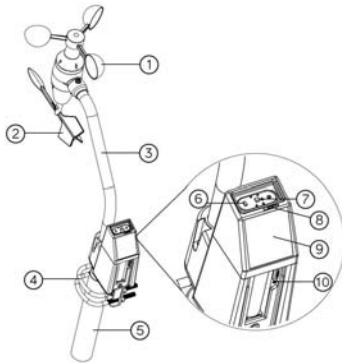
WH40

WH40 is a rain gauge. Be sure to lock the funnel firmly and in position( tell by having the arrow mark matched).The battery door should be tightly locked without gaps. 1pc AA battery ( Lithium non rechargeable recommended). LED flashes every 49s in normal operation. Press “RESET” button if LED doesn’t light up or stays on all the time.



WS68

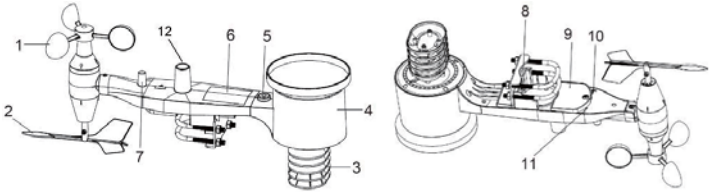
It operates on 1 AA battery ( Lithium recommended).



1.Wind speed cups	6.LED (red) to indicate data transmission
2.Wind vane	7.Light sensor and UV sensor
3.Connection tube	8.NORTH arrow
4.U-Bolts	9.Solar panel
5.Mounting Pole(not included)	10.Reset button

WS69

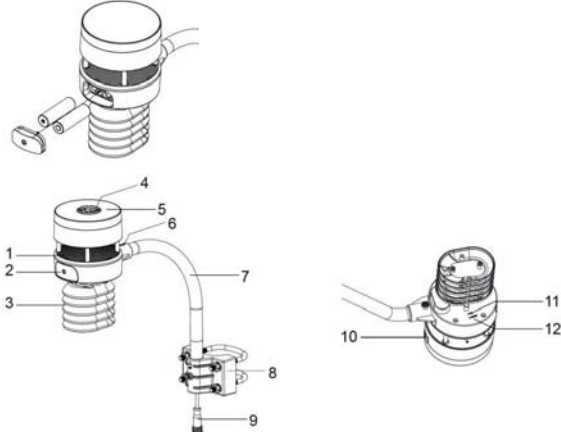
It requires 2pcs AA Lithium(recommended) or Alkaline batteries. LED flashes every 16s in normal operation. Press “RESET” button if LED doesn’t light up or stays on all the time.



1.Wind Speed cups	7.Antenna
2.Wind Vane	8.U-Bolts
3.Thermo- and hygro-meter sensors	9.Battery compartment door
4.Rain collector	10.Reset button
5.Bubble level	11.LED (red) to indicate data transmission
6.Solar panel	12.Light sensor and UV sensor

WS80

It requires 2pcs AA Lithium(recommended) or Alkaline batteries. LED flashes every 5s in normal operation. Press “RESET” button if LED doesn’t light up or stays on all the time.



1.Surface tension conditioner layer ( patent pending)	7.Mounting arm
2.Battery compartment	8.Mounting bracelet and U-bolt set
3.Temperature & humidity sensor	9.Power cord for built-in heater(12v1.0A)
4.Light & UV sensor, LED indicator	10.USB port (factory use only )
5.Solar Panel	11.Calibration button (factory use only )
6.NORTH alignment indicator	12.Reset button

When new sensor is powered, usually the GW1100 gateway will automatically pick up the data and value is displayed at the live data page. In case GW1100 gateway has previously memorized sensor ID learned before during factory QC control testing, it is needed to go to live data page, make “register” action to force gateway to search for new sensors around.

### GW1105, GW1105N, GW1106, GW107 Descriptions

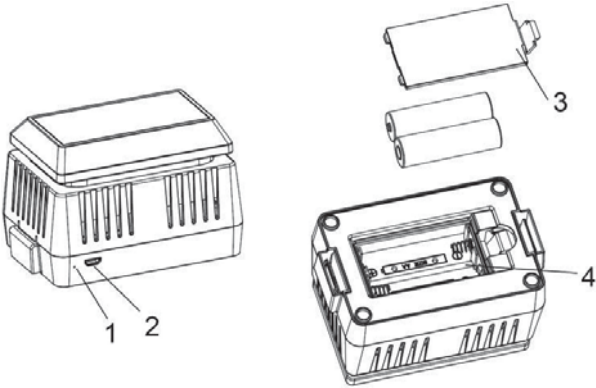
Ecowitt home care series products measures air quality and garden plants soil moisture. The Model difference overview:

Sensor Matched		GW1105	GW1105N	GW1106	GW1107	Sensor Number
Indoor CO2	WH45N	R				1*
Indoor PM2.5	WH43					4
Indoor Co2+PM2.5, PM10	WH45	R				1*
Soil Moisture	WH51	R				8

\*:Please look at the special marking in the below description for sensor QTY supported.

#### WH43,45N,45

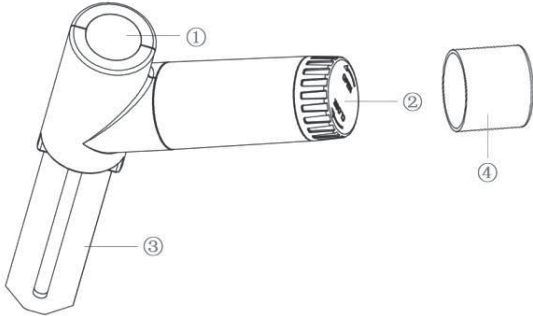
The three model looks quite similar with the housing, and it is designed for indoor air quality measurement. The power supply is from the USB ports at the side of the sensor housing, and the two AA alkaline batteries are mainly for back up purpose. The sensor wakes up and take a measurement once every minute. When at very quiet night time, the tiny sound of fan being turned on periodically is noticeable. **Please be noted that WH45 and WH45N can't be received at the same time on the same GW1100 gateway: it is allowed to have only one of them to be paired.** WH43 allows maximum 4 devices to be connected at the same time.



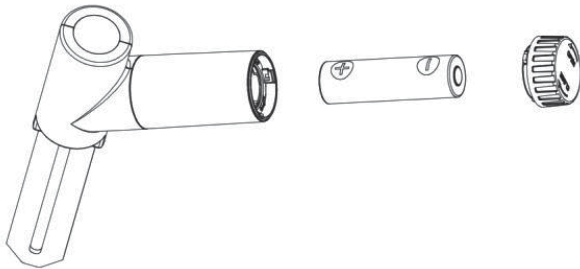
No	Description	No	Description
1	Red LED Indicator (RF transmission)	3	Battery Compartment Cover
2	AC Adapter USB Power Port	4	Battery Compartment

#### WH51

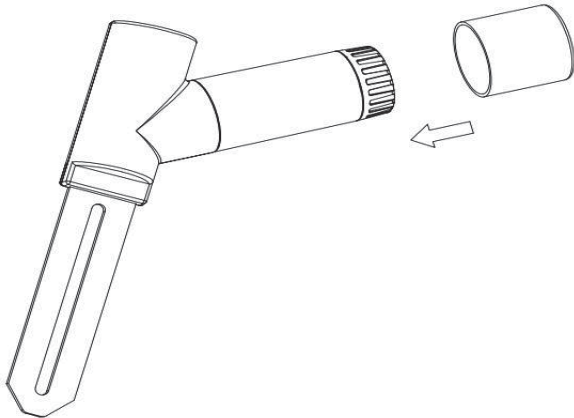
WH51 measures soil moisture level, and it is very useful in telling the relative moisture level change status. Once we know the level when just watered, and then wait until the reading dropped to a certain level and it can remind us to water the plant again, so we won't miss the timing that the plant start to be “thirsty”.



1	LED Indicator (RF transmission)
2	Battery Cap
3	Soil Moisture Sensor
4	Battery Door Protection Cover



Place one AA alkaline battery in the sensor and close the battery door.



Place the extra protection sensor cap over the battery door to achieve better sealing against moisture.

## FCC WARNING

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications 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 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

FCC ID: WA5GW1100