



Ambience Sensor Instruction Manual GW-4312 (PM2.5) GW-4312A (PM2.5+CO2)

Enjoy the life

Gingerway Technologies Co.,Ltd

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Descriptions

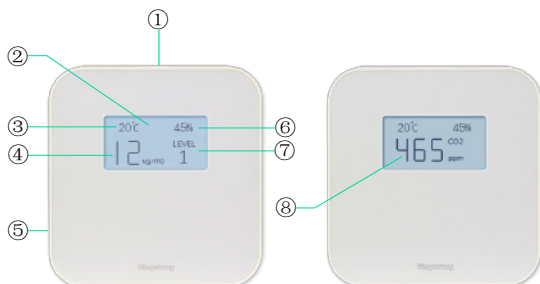
Dear users, sincerely thank you for choosing our products. For your convenience of installing and using this product, please read this manual carefully before use.

Being equipped with high-precision laser sensor and LCD screen, Gingerway ambience sensor GW-4321 can accurately measure the PM2.5 value, temperature and humidity of current ambience. GW-4312A also with CO2 concentration measuring function.

Main Features

- √ Z-Ginger® full-digital, highly reliable, large coverage, low power consumption internet of things two-way wireless network
- √ With built-in high precision laser particulate mass concentration sensor
- √ Non-Dispersive Infrared (NDIR) CO2 sensor(GW-4312A)
- √ Digital temperature and humidity sensor
- √ Lattice LCD screen, clear and intuitive
- √ Automatically upload data to the cloud (Must be used with SmartC gateway)
- √ Trigger linkage control based on measurement results (Must be used with SmartC gateway)
- √ Professional APP, multi-dimensional historical and real-time data display
- √ Ultra-low standby power consumption
- √ USB+12V DC dual input power design

Product Structure Diagram



1. Wake/Bind Button
2. LCD
3. Current Temperature
4. Current PM2.5 Value
5. USB Power Port
6. Current Humidity
7. Air Quality Level
8. CO2 Concentration

Installation

1. Draw the position of 2 bracket screw holes point to the wall, punch holes at the position by drill, then insert anchorings to fix the bracket on the wall.
2. Fasten the sensor on mounting bracket.

Attention

1. Please keep nothing covered on the air-vent of sensor.
2. The mounting position must be larger than 0.75m apart from the corner of wall, larger than 0.2m apart from the ground.
3. Semiannual clean for sensor is recommended.

Usage

Please bind the ambience sensor with SmartC gateway before use:

Long press the bind button for 5 seconds, the LCD will show "BINDING..." and send out binding request. Add a new smart device binding on APP "ZGinger Mini", you can refer to the instruction manual of SmartC gateway for the detailed procedure .

Short press awake button can switch the LCD display interface between CO2 and PM2.5 (GW-4321A).

Technical Parameters

Power Supply	5VDC / 12VDC	Maxmium Power Consumption	≤ 0.2W
RF	433MHz	RF Transmit Power	~10dbm
Effective Range of Particulate Mass Concentration (PM2.5 standard value)	0-500 $\mu\text{g}/\text{m}^3$	Display Range of Particulate Mass Concentration (PM2.5 standard value)	0-999 $\mu\text{g}/\text{m}^3$
Consistency of Particulate Mass Concentration (PM2.5 standard value)	$\pm 10\mu\text{g}/\text{m}^3$ (0-100) $\pm 10\%$ (100-500)	Resolution of Particulate Mass Concentration (PM2.5 standard value)	1 $\mu\text{g}/\text{m}^3$
Temperature Measurement Range	-20°C-60°C	Accruancy Measurement Range	$\pm 0.5^\circ\text{C}$ (-10°C-60°C) $\pm 1^\circ\text{C}$ (-20°C- -10°C)
CO2 Measurement Range	0-9999ppm	CO2 Measurement Accuracy (25°C.101.3KP atmosphere)	$\pm 40\text{ppm}\pm 3\%$ Reading
Humidity Measurement Range	0-99% RH	Humidity Measurement Accuracy (25°C)	$\pm 2\%$ RH (10-90% typical value) $\pm 8\%$ RH (Max value in other case)
Dimensions(L * W * H)	77mm*77mm*34mm	Weight	102g

Warranty Terms

Gingerway products are guaranteed for 2 years since the date of purchase. During the warranty period, if Gingerway products malfunction(not contain artificial damages) under normal circumstances, they can be free repaired or exchanged at local dealer with the purchase invoice.

1. If due to quality failure during the warranty period, the maintenance is free in first year, only the component cost will be charged in the second year.
2. Disassembling Gingerway product components without the permission of our company or the local client center, our company will no longer bear the free warranty responsibility .

Note: Shenzhen Gingerway Technologies Co., Ltd reserves the right of final explanation for above terms.



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