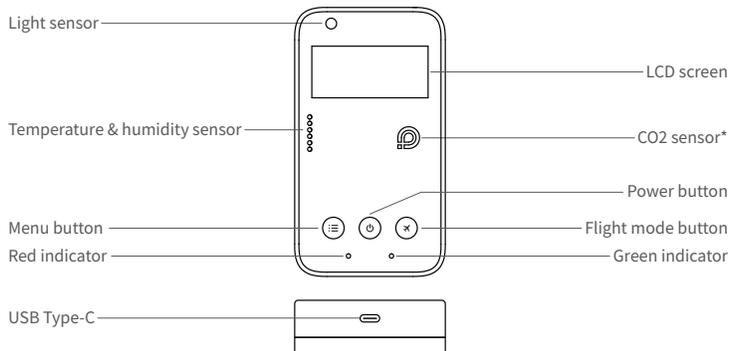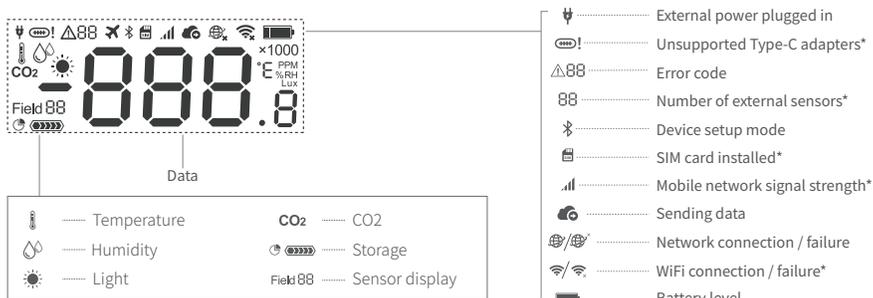# Wireless Temperature & Humidity Sensor WS4

User Manual

This user manual is a general guide for all UBIBOT® Wireless Temperature & Humidity Sensor WS4. Some features, which are marked with asterisk, are available only for specific versions. Please refer to related instructions according to the version you purchased.

INTRODUCTION

1. Basic Features Introduction

Light sensor

LCD screen

Temperature & humidity sensor

CO2 sensor*

Power button

Menu button

Flight mode button

Red indicator

Green indicator

USB Type-C

2. Screen Icons Introduction

🌡	Temperature	**CO2**	CO2
💧	Humidity	🕒	Storage
☀	Light	Field 88	Sensor display

Data

⚡	External power plugged in
⌫!	Unsupported Type-C adapters*
⚠88	Error code
88	Number of external sensors*
⁎	Device setup mode
🖪	SIM card installed*
⊿	Mobile network signal strength*
☁	Sending data
⊕/⊕	Network connection / failure
⌃/⌃	WiFi connection / failure*
🔋	Battery level

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3.Device Operations

Switch On	Press and hold the power button for 3 seconds until the screen lights up. Release the button and the device is now on.
Switch Off	Press and hold the power button for at least 3 seconds until the screen is off. The device is now off.
Setup Mode	With the device switched on, press and hold the menu button for 3 seconds. Release the button until the bluetooth icon flashes on the screen.
Send data	With the device switched on, press the power button once to trigger a manual data sync. The 🌀 icon will flash while the data is being transferred.
Toggle Screen Readings	Press the menu button once to toggle between the internal sensor readings and external sensor readings and sensing data simultaneously.
Toggle Celsius or Fahrenheit	Double press the power button to toggle between displaying Celsius or Fahrenheit. This will also refresh the last sensing data.
Reset to Default Settings	Switch the device off, then press and hold the menu button and power buttons together for at least 5 seconds, then release the buttons to restore factory settings.
Airplane Mode	Press and hold the flight mode button for 3 seconds to enable or disable airplane mode.

DEVICE SETUP OPTIONS

Option 1: Using Mobile App

Download the App at www.ubibot.com/setup, or search 'UbiBot Connect' on the App Store or Google Play.

> **We recommend you try to use the PC Tools in case the App setup fails, because the failure may be due to mobile phone incompatibility. The PC Tools is much easier to operate and suitable for both Mac and Windows.**
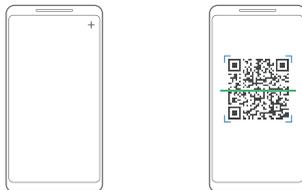
Option 2: Using PC Tools

Download the tool at www.ubibot.com/setup.

This Tool is a desktop app for device setup. It is also helpful in checking setup failure reasons, MAC address, and offline charts. You can also use it to export offline data stored in the device internal memory.

SETUP USING THE APP FOR WiFi CONNECTION*

Launch the App and log in. On the home page, tap "+" to start adding your device. Then please follow the in-app instructions to complete the setup. You can also view the demonstration video at www.ubibot.com/-setup for step by step guidance.
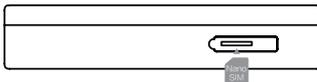

Via our app and web console (http://console.ubibot.com), you are able to view the readings as well as config-ure your device, such as create alert rules, set data sync interval, etc. You can find and watch the demonstration videos at www.ubibot.com/setup.

SETUP USING THE APP FOR MOBILE NETWORK*

Before you setup the device on mobile data, please check the APN information of the SIM card used for the UbiBot device.

An APN (Access Point Name) provides the details your device needs to connect to mobile data through your network operator. APN details differ by network and you will need to get these from your network operator.
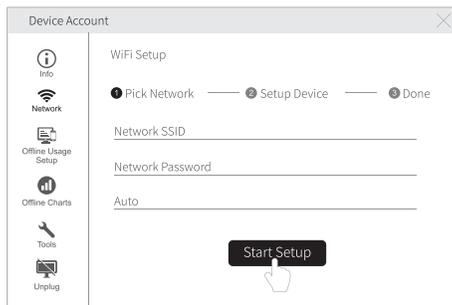
With the device off, insert the SIM card as indicated in the picture. Launch the app and log in. Tap the "+" to start setting up the device. Please follow the in-app instructions to complete the setup process. Please note, the setup will fail if you don't have data allowance.

SETUP USING PC TOOLS

STEP 1. Launch the App and log in. With the device switched on, use the Type-C USB cable provided to connect your device to the computer. The PC Tools will automatically scan and recognize the product ID and enter the device page.

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STEP 2. Click "Network" on the left menu bar. There, you are able to set up the device on WiFi for all the models. For the SIM setup, please click on the corresponding button to continue.

TYPE-C CONVERSION CABLE

Some models support external sensors. To use an external sensor, a Type-C conversion cable is required, and the sensor should be connected to the audio jack.

Audio jack

Type−C plug (male)   Type−C socket (female)

DEVICE SPECIFICATION

↕ 70 mm x 125 mm x 25 mm		🖉 Flame resistant ABS	
▬ Built-in 2500mAh lithium battery		⌁ Type-C, DC 5V/2A	
📶 WiFi 2.4GHz & 5GHz, channel 1-13*		🗎 Supports Nano SIM card* (12 mm x 9 mm x 0.8mm)	
🖧 Built-in Memory: 300,000 sensing data		○ IP65	
① Device working environment: -20 ~ 60°C, 10 ~ 90%RH (non-condensing)			

ERROR CODES

01   System Protection: Please follow the instructions to properly configure the device. Unconfigured devices will revert to system protection mode to save power.

02   WiFi Connection Failed: Please refer to the Troubleshooting section 1.

03   Device Unbound: Please check whether the device has been bound and is connected to the network.

04   Device Activation Failed: Please refer to the Troubleshooting section 1.

05   Data Save Failure: This can happen when the power is disrupted while data is being saved.

06   Incorrect Data Format: This can happen when there is a power disruption while saving data.

07   Data Sync Failed: Please refer to the Troubleshooting section 1.

08/44 No SIM Card Found: Please check the SIM card is correctly inserted.

09   Mobile Data Network Failure: Please check your SIM card is set up correctly and has been activated.

FAQ

1. WiFi or SIM setup failure

① WiFi channel: The device can only connect to channels 1-13.

② WiFi password: Go through the device setup again and ensure that you have set the correct WiFi password for the network.

③ WiFi security type: The device supports OPEN, WEP, or WPA / WPA2 types.

④ WiFi channel width: Make sure it is set to 20 MHz or "Auto".

⑤ Internet connection: Make sure your device's WiFi router has a working Internet connection (for instance, try to access www.ubibot.com using a mobile connected to the same WiFi).

⑥ Low battery power: WiFi uses a lot of power. Your device maybe able to power on but may not have enough

power for the WiFi.

⑦ Make sure the SIM card is installed correctly and have a good mobile signal.

⑧ Please make sure the device has entered setup mode.

⑨ For direct problem diagnosis, please use the PC Offline Tools to go through the setup process and contact us with the response error code in Tools - Get Device Last Error. This can help us to remotely diagnose.

PRODUCT MAINTENANCE INSTRUCTIONS

☑ Please always follow the instructions contained in this manual.

⊞ Always mount the device on a stable surface.

⚠ Keep away from acidic, oxidising, flammable or explosive substances.

⊘ When handling the device, avoid using excessive force and never use sharp instruments to try and open it.

⚲ Please use common USB Cable or original charger, Otherwise, It may result to danger. When you use a charger for charging, adapter shall be installed nearthe equipment and shall be easily accessible.

Manufacturer of Power adapter: Huizhou Guoaotong Technology Co., Ltd.

Parameters of Power adapter: Input: AC 100~240V, 600mA, 50/60Hz. Output: DC 5V, 2000mA.

WARRANTY

This product is covered by a one-year limited warranty from the date of purchase (with valid proof of purchase). During the warranty period, UbiBot will repair defects in materials or workmanship under normal use at no charge. Return shipping to our repair center is the sender's responsibility.

Warranty exclusions:

- Warranty expired.

- Damage caused by misuse, incorrect operation, or failure to follow instructions.

- Accidental or intentional damage (including liquid ingress, impact, deformation, cable damage).

- Normal wear and aging (including casing and cables).

- Unauthorized disassembly or modification.

- Damage due to force majeure (earthquake, fire, flood, lightning, etc.).

- Other damage not caused by manufacturing defects.

TECHNICAL SUPPORT

The UbiBot team is glad to hear your voice of our products and services.

For any questions or suggestions, please feel free to create a ticket in the UbiBot app. Our customer services representatives respond within 24 hours and often in less than an hour. You can also contact local distributors for localized support. Visit our website for contact details.

FCC Statement

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 particula 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 diferent from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approvedby manufacturer could void your authority to operate this equipment.

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.

V1.0