Manuals+ — User Manuals Simplified.

UBiBOT GS1-A Wireless Temperature Sensor

UBiBOT GS1-A Wireless Temperature Sensor User Guide

Contents
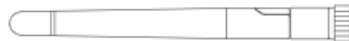
UBiBOT GS1-A Wireless Temperature Sensor

This manual book is a general guide for all types of our Industrial-grade GS1 devices. Some features which are marked with asterisk are available for specific versions. Please refer to the related instructions according to the version you purchased.
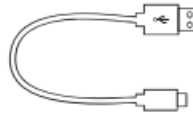
PACKAGE LIST
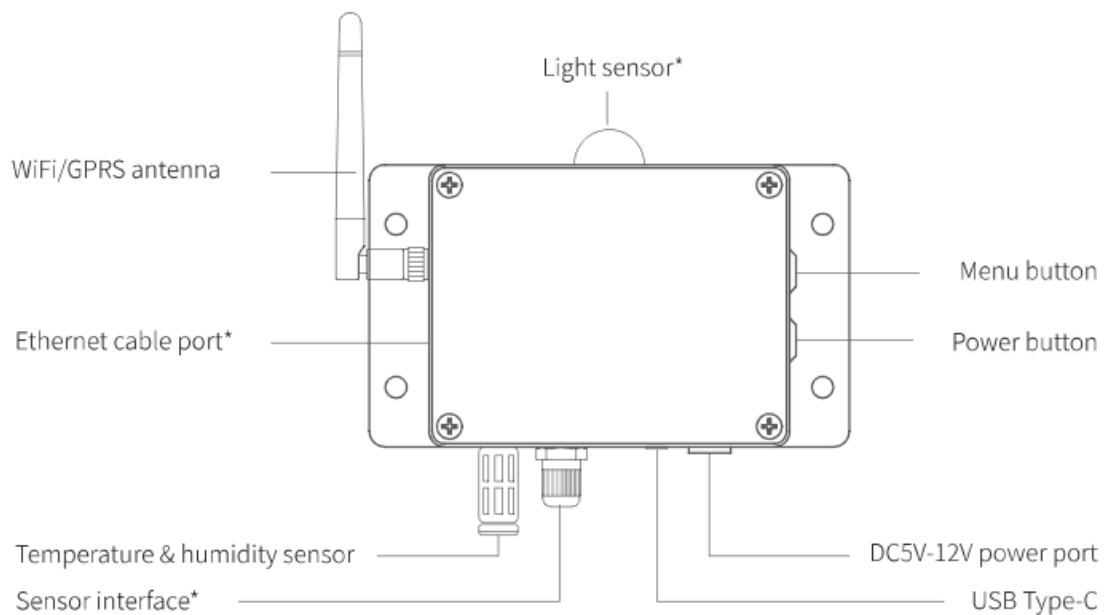

❶ Device

❷ External antenna①

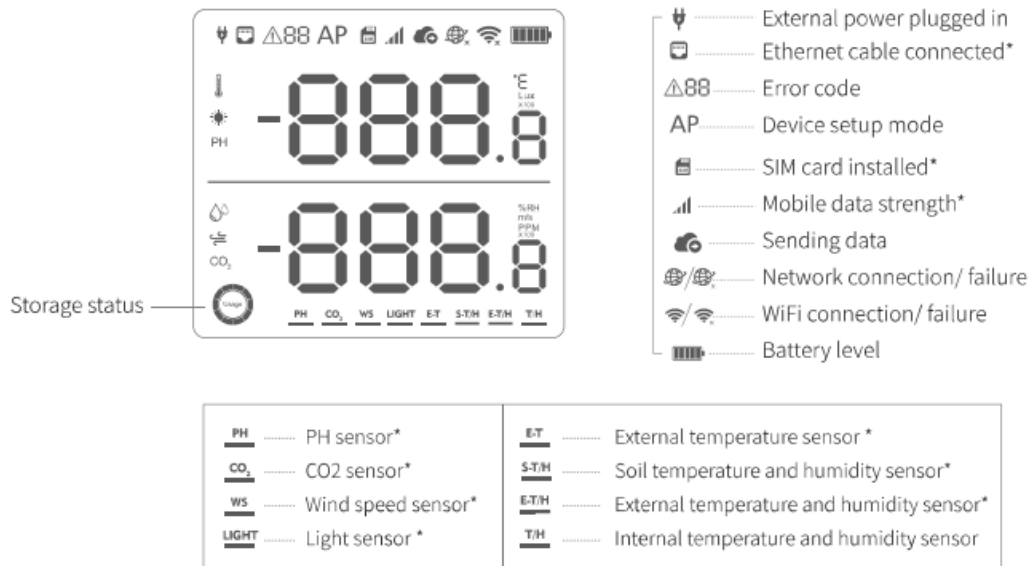❸ Type-C USB cable②

❹ User manual

- **Note:** Please tighten the antenna before use.
- Please note, that only the 4-wire cable we provided can support data transmission. Some other cables may not work when connecting the PC Tools.

INTRODUCTION

1. **Appearance Introduction**

Light sensor*

WiFi/GPRS antenna

Ethernet cable port*

Menu button

Power button

Temperature & humidity sensor

Sensor interface*

DC5V-12V power port

USB Type-C

2. **Screen Icons Introduction**

	External power plugged in
⊡	Ethernet cable connected*
⚠88	Error code
AP	Device setup mode
	SIM card installed*
ᴵᴵ	Mobile data strength*
	Sending data
⊕/⊕	Network connection/ failure
⚡/⚡	WiFi connection/ failure
IIII	Battery level

Storage status

PH	PH sensor*	E-T	External temperature sensor *
CO₂	CO2 sensor*	S-T/H	Soil temperature and humidity sensor*
WS	Wind speed sensor*	E-T/H	External temperature and humidity sensor*
LIGHT	Light sensor *	T/H	Internal temperature and humidity sensor

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.
- **IMPORTANT**
  - The battery power will drain during the shipment and storage.
  - You may fail to switch the device on for the first time.
  - Please charge the device for 6-12 hours before you get started. This can also ensure better battery pertormance.
- **Switch Off**
  - Press and hold the power button for 3 seconds until the screen is off. The device is now off.
- **Device Setup Mode**
  - With the device switched on, press and hold the menu button for 3 seconds. Release the button until the AP icon flashes on the screen.
- **Manual Data Synchronisation**
  - 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. You can also hear the voice guidance.

- **Toggle Screen Readings**
  - Press the menu button once to toggle between the internal sensor readings and external probe readings and sensing data simultaneously.
- **Switch On/Off Voice Guide**
  - Double-press the menu button to enable or disable the voice guide. This will also refresh the last sensing data.
- **Toggle Celsius or Fahrenheit**
  - Double press the power button to toggle between displaying Celsius or Fahrenheit. This will also refresh the last sensing data.
- **Display Backlight**
  - Pressing either of the buttons will switch on the display backlight for a short time. Pressing both of two buttons at the same time will keep the backlight alight constantly. Pressing another time will switch off the backlight.
- **Reset to Default Settings**
  - Switch the device off, then press and hold the menu button and power buttons together for at least 8 seconds. Release the buttons when you hear the voice guidance "The device will now reset".
- **IMPORTANT**
  - ALL STORED DATA WILL BE LOST IF YOU RESET YOUR DEVICE TO DEFAULT SETTINGS! REMEMBER TO SYNCHRONISE THE SENSING DATA TO THE UbiBot IoT PLATFORM OR EXPORT THE DATA TO YOUR COMPUTER BEFORE RESETTING IT.

## DEVICE SETUP OPTIONS

- **Option 1:** Using a Mobile App
  - Download the App from **www.ubibot.com/setup**, or search for "UbiBot" on the App Store or Google Play.
  - We recommend you try to use the PC Tools when the App setup fails, because the failure may be due to mobile phone compatibility.
  - The PC Tools is much easier to operate and suitable for both Macs and Windows.
- **Option 2:** Using PC Tools
  - Download the tool from **www.ubibot.com/setup**.
  - This tool is a desktop app for device setup. It is also helpful in checking setup failure reasons, MAC addresses, and offline charts.
  - You can also use it to export offline data stored in the device's internal memory.
- **SETUP USING THE APP FOR WIFI CONNECTION**
  - Launch the App and log in. On the home page, tap the "+" 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.
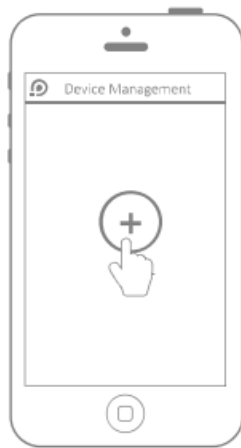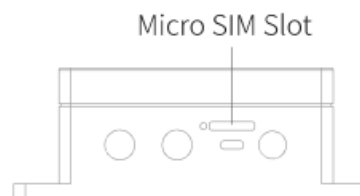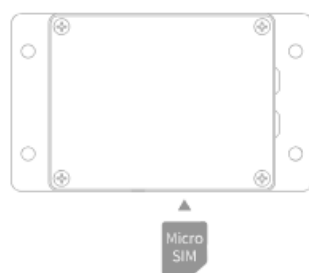
Add your device
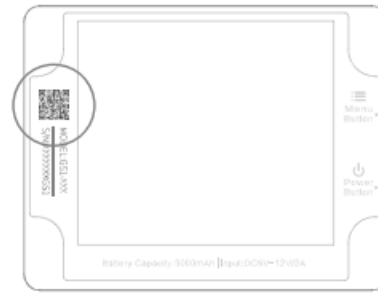
Scan the QR code

- Via our app and web console (**http://console.ubibot.com**), you can view the sensor readings as well as configure your device, such as creating alert rules, setting data sync intervals, etc.
- You can find and watch the demonstration videos at **www.ubibot.com/setup**.

SETUP USING THE APP FOR MOBILE NETWORK

- Before you set up 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, that the setup will fail if you don't have a data allowance.


Micro SIM Slot

Micro SIM

SETUP USING THE APP FOR ETHERNET CABLE CONNECTION*

- **STEP 1.**
  - Connect the device to the power supply and plug the Ethernet cable.
- **STEP 2.**
  - Launch the app and log in. On the home page, tap the "+" 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.

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 Tools will automatically scan and recognize the product ID and enter the device page.
- **STEP 2.** Click "Network" on the left menu bar. There you can set up the device on WiFi for all of the models. For SIM or Ethernet cable setup, please click on the corresponding button to continue.
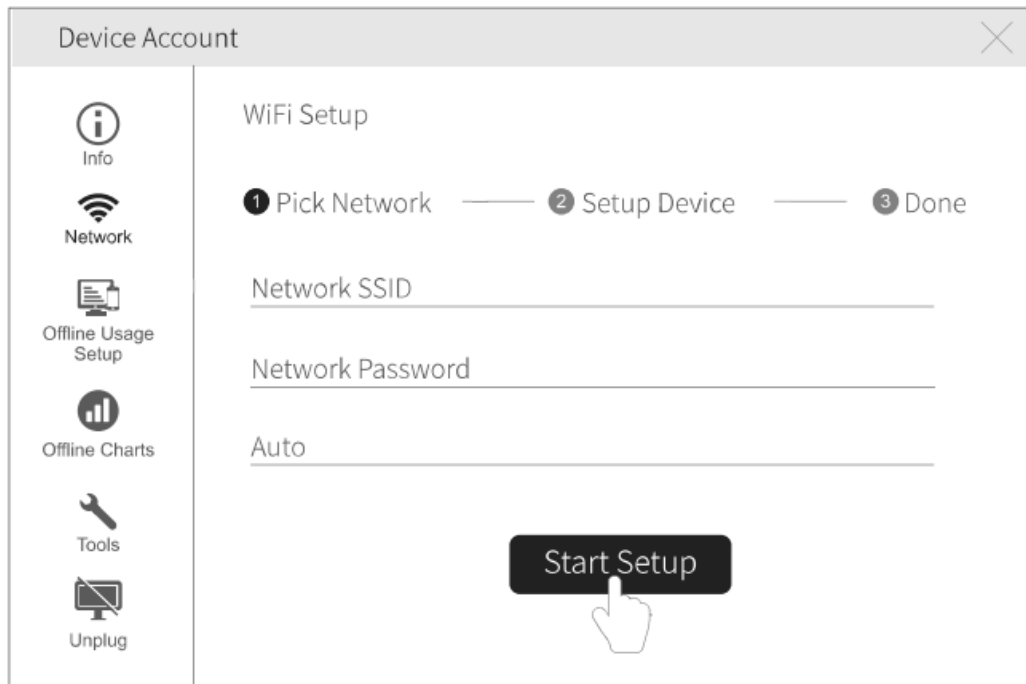
TECHNICAL SPECIFICATIONS

WiFi, 2.4GHz, channels 1-13	Flame resistant ABS + PC
Built-in 2900mAh lithium battery	Type-C, DC5V/2A or 12V/1A power supply
Supports Micro SIM card* (15mm x 12mm x 0.8mm)	Built-in Memory:300,000 sensing data
Optimal working conditions: -20°C to 60°C, 10% to 90%RH	115mm x 90mm x 55mm
Supports Rj45 Ethernet cable, Ethernet switch 100 mbps or lower.*	

ERROR CODES

1. **System Protection**
   - Please follow the instructions to properly configure the device. Unconfigured devices will revert to system protection mode to save power.
2. **WiFi Connection Failed**
   - Please refer to the Troubleshooting section 3.
3. **Failed to Connect to Server**
   - Please refer to the Common Questions at **www.ubibot.com/category/faqs**.
4. **Device Activation Failed**
   - Please refer to the Troubleshooting section 1.
5. **Data Save Failure**
   - This can happen when the power is disrupted while data is being saved.
6. **Incorrect Data Format**
   - This can happen when there is a power disruption while saving data.

7. **Data Sync Failed**
   - Please refer to the Troubleshooting section 3.
8. **No SIM Card Found**
   - Please check the SIM card is correctly inserted.
9. **Mobile Data Network Failure**
   - Please check your SIM card is set up correctly and has been activated.

TROUBLESHOOTING

1. **WiFi or SIM setup failure**
   - **Several factors can affect the setup process.** The following are common issues: OWiFi frequency: The Device can only connect to 2.4GHz networks, channels 1 – 13.
     2WiFi password: Go through the device setup again and ensure that you have set the correct WiFi password for the network.
   - **WiFi security type:** The Device supports OPEN, WEP, or WPA/WPA2 types.
   - **WiFi channel width:** Make sure it is set to 20MHz or "Auto".
2. **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).
   - **Low battery power:** WiFi uses a lot of power. Your device may be able to power on but may not have enough power for the WiFi. Please charge the device.
   - Make sure the SIM card is installed correctly and has a good mobile signal.
3. **Please make sure the device has entered WiFi setup mode.**
   - 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.
4. **Failure to set up via Ethernet cable: Please check if the Ethernet cable is plugged correctly.**
   - Please check if the Ethernet cable is in good condition.
   - Please check if the Ethernet cable has access to the Internet.
   - Please check if the batteries are too flat to set up.
   - please check if the Ethernet switch is 100 Mbps or lower.
   - If all the above conditions are excluded, but you still can not activate the device, please check whether the network rejects DHCP (automatic IP allocation); Or, you can also try to re-plug the Ethernet cable and go through the setup process again.
   - Failure to Sync Data. Please check the following: With the device switched on, press the power button once to trigger a manual data sync. You can hear "sync completed" after the data is transferred. If it says "sync failed", try the next steps.
   - Check that the device has sufficient battery power for data sync. Data synchronisation consumes a lot of power – the device may be on, but unable to sync data. Please check the battery icon on the screen. Charge the device before it runs out of the power.
   - 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).
   - If you are using mobile data, check that your SIM card is activated. Check if your mobile data allowance is used up. And, check if the Ethernet cable is firmly connected.

TECHNICAL SUPPORT

- The UbiBot team is glad to hear your voice about our products and services.
- For any questions or suggestions, please feel free to create a ticket in the UbiBot app.
- Our customer service representatives respond within 24 hours and often in less than an hour.
- You can also contact the local distributors in your country for localized service. Please go to our website to view their contacts.

WARRANTY INFORMATION

1. This device is warranted to be free of defects in materials and workmanship for a period of up to one year from the original purchase date. This warranty does not cover damage caused by normal wear, misuse, abuse or incorrect repair. To claim under this limited warranty and to obtain warranty service, please contact customer service or a local distributor to obtain instructions on how to pack and ship the product back to us.
2. The following situations will not be covered by the warranty: Issues arising after the warranty period has ended. Natural wear and aging of materials.
3. Malfunction or damage caused by improper handling or not operating the device according to the instructions.
4. Damage occurs from operating the device outside the recommended temperature and humidity range, damage from contact with water (including uncontrolled water intrusion, e.g., water vapour and other water-related causes), damage from applying excessive force to the device or any cables and connectors.
5. Failure or damage caused by unauthorized removal of the product.
6. We are only liable for faults due to manufacturing or design. We are not responsible for damage caused by Force Majeure or acts of God.

PRODUCT CARE

☑ 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.
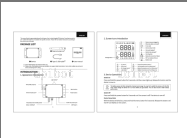
PRODUCT MODEL

	GS1-A	GS1-AL4G1RS	GS1-AETH1RS	GS1-PL4G1RS[①]
Transmission Mode	WiFi	WiFi/4G	WiFi/RJ45 Ethernet cable	WiFi/4G
Battery Life	4-6 months (WiFi only)	4-6 months (WiFi only) 3-6 weeks (sync via SIM)	3-5 days	1-2 weeks (GNSS)
Internal Temperature & Humidity Sensor	✓	✓	✓	✓
Internal Light Sensor	/	✓	✓	✓
Supports External Probes	/	✓	✓	✓
Waterproof & Dustproof	IP65	IP65	/	IP65
GNSS	/	/	/	✓
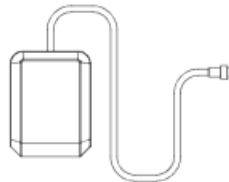
GPS antenna

1. The antenna of GPS version GS1 is different from other versions. During the use, please try to place the antenna in the open air. The antenna is IP68 waterproof.

Documents / Resources

	UBiBOT GS1-A Wireless Temperature Sensor [pdf] User Guide GS1-A Wireless Temperature Sensor, GS1-A, Wireless Temperature Sensor, Temperature Sensor

References

- **User Manual**