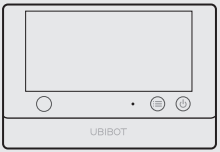
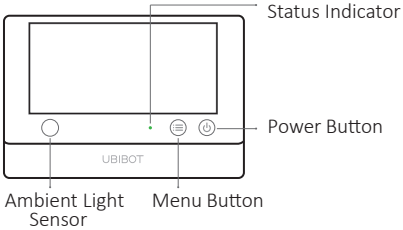
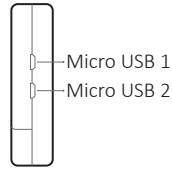
UbiBot WS1 Pro-L

User Guide



INTRODUCTION

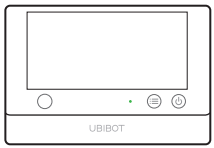




Micro USB 1
Used for USB power supply, external DS18B20 probe (optional extra), or PC connectivity.

Micro USB 2
Used for external temperature sensor (optional extra) and UbiBot RS485 external sensors.

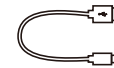
Package List



1 Device



2 Stand

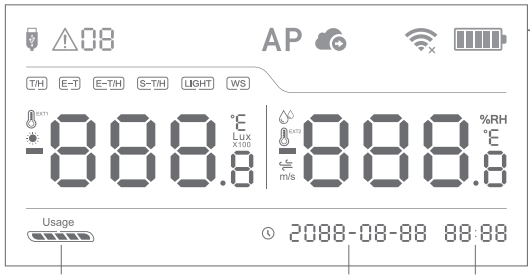


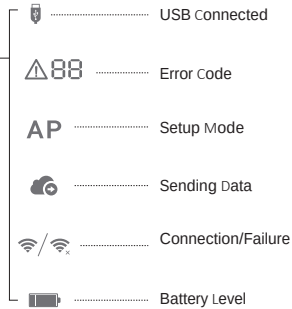
3 **4-wire** Micro USB cable ⓘ

ⓘ Please note, only **4-wire** cable as we provided can support data transmission. Some other cables may not work when connecting the PC Tools.

DISPLAY OF WS1 PRO-L

ENGLISH





T/H — Internal temperature and humidity

E-T — External temperatureexternal

LIGHT — Ambient light

S-T/H — External Soil temperature and moisture

E-T/H — External temperature and humidity

WS — Wind speed

⚠ Battery level calculated based on 4 standard 1.5v AA alkaline batteries.

	EU868 / US915 / AU915 / IN865 / RU864 / KR920 / AS923
	Flame resistant ABS + PC
	4 x AA batteries (not included) or Micro USB power (DC 5V/2A)①
	143g ± 13g, not including batteries
	4.96'' x 0.88'' x 3.38''
	2x Micro USB
	Built-in Memory: 50,000 sensing data
	Supports up to 2 temperature probes (optional extra)
	Optimal operation and storage conditions: -20 to 45℃, 10% to 90% RH (No condensation)

① The device can preferentially use USB power if both USB and batteries are available. In this case, you can insert 4 AA batteries as a backup for the power supply in case of socket power goes off. Rechargeable batteries are also supported, but please note the device won't charge them when USB supply is plugged in.

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY ANINCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TOTHE INSTRUCTIONS

- Switch On
  Press and hold the power button for 3 seconds until the screen is lit up. Release the button and the device is now on.
- Switch Off
  Press and hold the power button for 3 seconds. The indicator will flash red once and 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 when the indicator flashes alternately red and green and the AP icon will display on the screen.
- Reset to Default Settings
  Switch the device off. Now press and hold the menu button and power button together for at least 8 seconds. Release the buttons when the indicator is constantly flashing red.
- Toggle Screen Readings
  Press the menu button once to change the readings of different sensors (depending on the specific mode purchased).

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.

- Manual Data Synchronisation
  With the device switched on, press the power button once to trigger a manual data sync. There is a voice guide of "data synchronizing". The voice guide will be "sync completed " while the data is being transferred. If the server cannot be contacted, the voice guide will be "sync failed".
- Switch On/Off Voice Guide
  Press the menu button twice in quick succession to enable or disable the voice guide. This will also refresh the last sensing data.
- Toggle Device Screen Celsius or Fahrenheit
  Press the power button twice to toggle between displaying Celsius or Fahrenheit. For app and web console readings, please go to account settings page to switch the temperature unit.

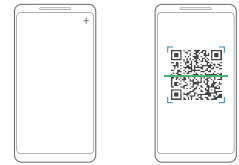
DEVICE SETUP OPTIONS

Download the App from www.ubibot.com/setup

Or Search for “UbiBot Connect” on the App Store or Google Play.

DEVICE SETUP

Launch the App and log in. In the app, select the LoRa Gateway and go to the Glance page. Tap "+" to start adding your node 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 sensor readings as well as configure 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.

TROUBLESHOOTING

1. Device setup failure when using the UbiBot Connect App

There are several factors that can affect the setup. The followings are common issues:
① Battery problems: Your device may be able to power on but may not have enough power for the LoRa communication. Try to use the USB power supply.
② Signal strength: Check you are in range for your gateway, make sure you have a good signal.

For direct problem diagnosis, please use the PC 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. You can download the software at www.ubibot.com/setup/.

2. Failure to Sync Data (Error code 02 / 07)

Please check the following:

① Check that the device has sufficient battery power to work. We recommend you use Alkaline batteries or USB power for better device's performance.

② Make sure your gateways has a working Internet connection.

3. The PC Tools failed to recognise the device

① Please check if you are using the USB cable provided in the packaging. Some other USB cable is not **4-wire** which cannot offer data transmission.

② Please check if the USB cable connects to the on-board USB1 (upper port). The USB2 doesn't support PC connectivity.

③ Please remove the splitter if there is one connected.

PRODUCT CARE

- Please always follow the instructions contained in this manual.
- The device is not waterproof. Please keep away from water during operation, storage and shipping. For using outdoor or in extreme conditions, please contact us or our distributors for links of external waterproof probe.
- 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.

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 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 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:

① Issues arising after the warranty period has ended. Natural wear and aging of materials.

② Malfunction or damage caused by improper handling or not operating the device according to the instructions.

③ Damage occurring 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.

④ Failure or damage caused by unauthorized removal of the product.

⑤ 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.

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.

Making Sense of Your World

UBIBOT | Customer Service
Website: www.ubibot.com

V 1.0