Making Sense of Your World

Customer Service

E-mail: support@ubibot.io Website: www.ubibot.io Manufacturer: Dalian Cloud Force Technologies CO., LTD





USER GUIDE

WS1 Pro – the Smartest Multi-Sensor IoT Device

www.ubibot.io



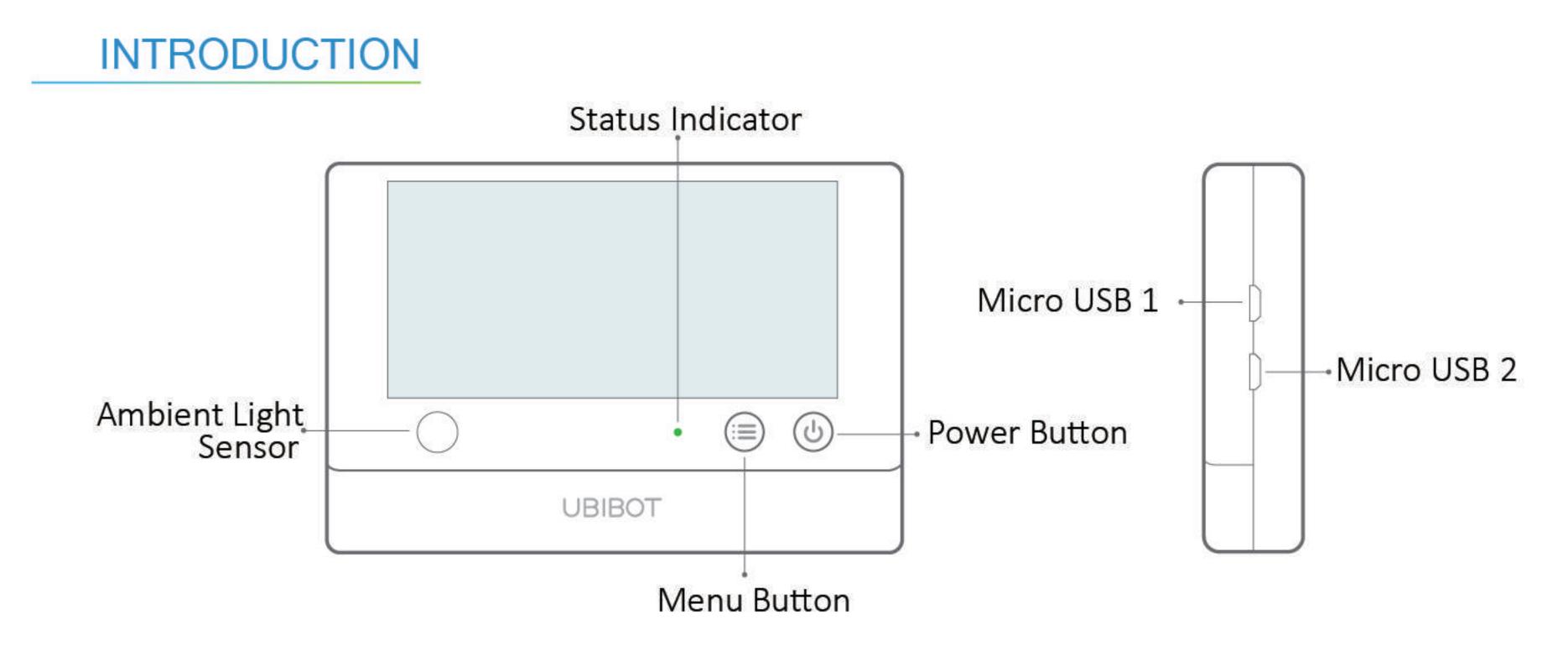
Enjoy!

INTRODUCTION

The UbiBot[®] WS1 Pro is a smart multi-sensor device with WiFi capabilities. It makes environmental monitoring easier than ever with its accurate sensors and automatic wireless data synchronisation. The device comes with a free subscription to our advanced IoT Platform offering custom monitoring, analysis, reports and alerts. Device readings are displayed on the built-in LCD screen and are synchronised to the IoT Platform. You can access the data any time using our App or via the web. Some models come with a built-in RS485 ModBus*.

 $\triangle *$ Depending on the specific model purchased.

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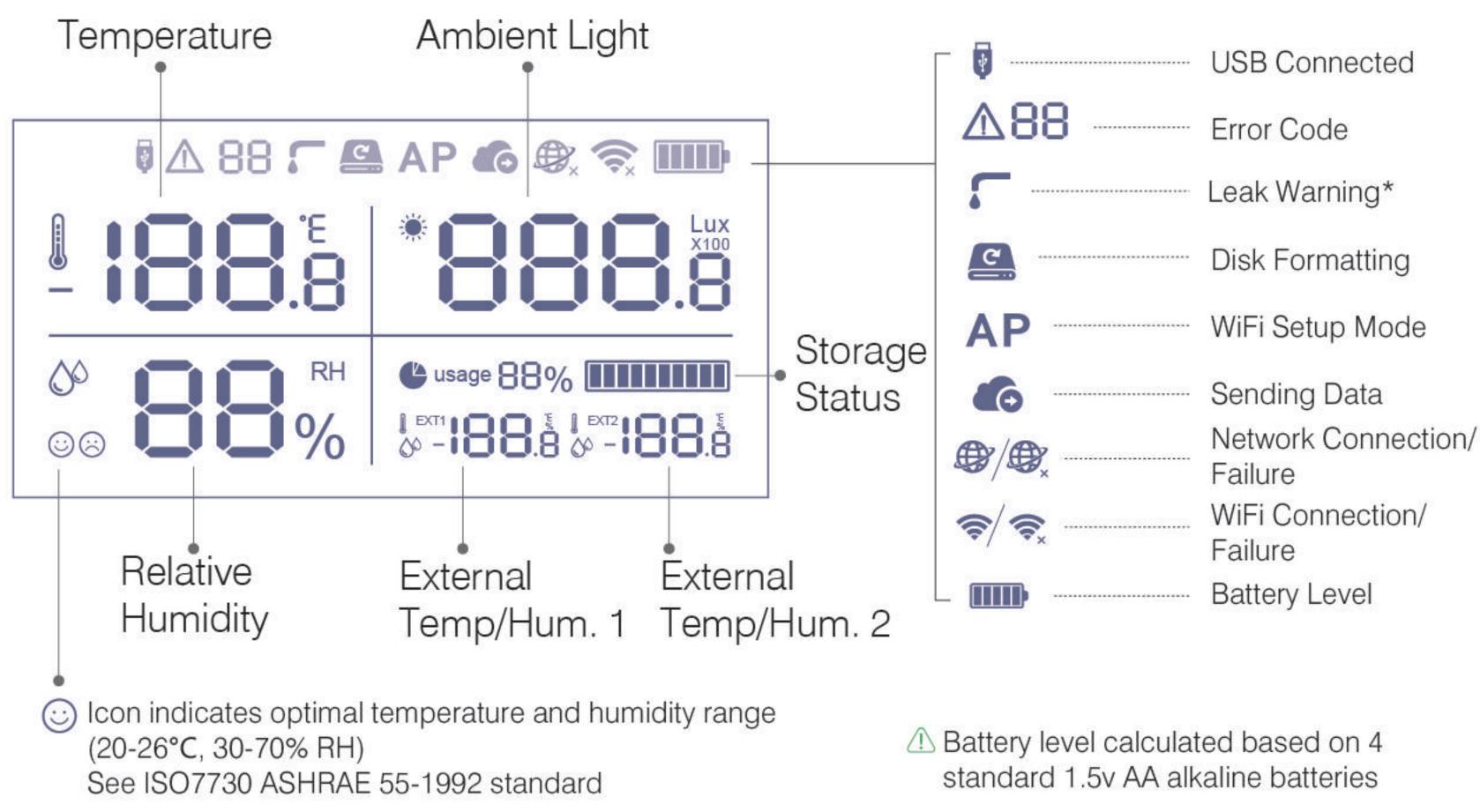


Micro USB 1 Used for USB charging or external DS18B20 temperature probe (optional extra). Also provides PC connectivity.

Micro USB 2 Used for USB charging or external DS18B20 temperature probe (optional extra). Optional built-in RS485 ModBus

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INTRODUCTION



Overview of LCD Display





DEVICE OPERATIONS

Switch On

To switch the device on, press and hold the power button for 3 seconds until the indicator starts blinking green. Release the button and the indicator will turn off after a couple of seconds. The device is now on.

Switch Off

To switch the device off, press and hold the power button for 3 seconds. The indicator will flash red once and the device is now off.

WiFi Setup Mode

With the device switched on, press and hold the menu button for 3 seconds. The indicator will start flashing alternate red and green and the AP icon will display on the screen. Release the button at this point.

Manual Data Synchronisation

With the device switched on, press either button once to trigger a manual data sync. The indicator will flash green while the data is being transferred. If the server cannot be contacted, the indicator will flash red once. 04/23

DEVICE OPERATIONS

 Reset to Default Settings stantly flashing red.



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 IMPORTANT YOUR COMPUTER BEFORE RESETTING IT.

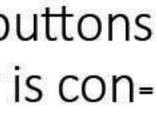
- Switch On/Off Voice Guide
- Display Backlight time.
- Toggle Celsius or Fahrenheit Fahrenheit.

Switch the device off. Now press and hold the menu button and power buttons together for at least 8 seconds. Release the buttons when the indicator is con-

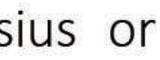
Press the menu button twice in quick succession to enable or disable the voice guide. This will also sync the data to the IoT platform.

Pressing either of the buttons will switch on the display backlight for a short

Press the power button twice to toggle between displaying Celsius or

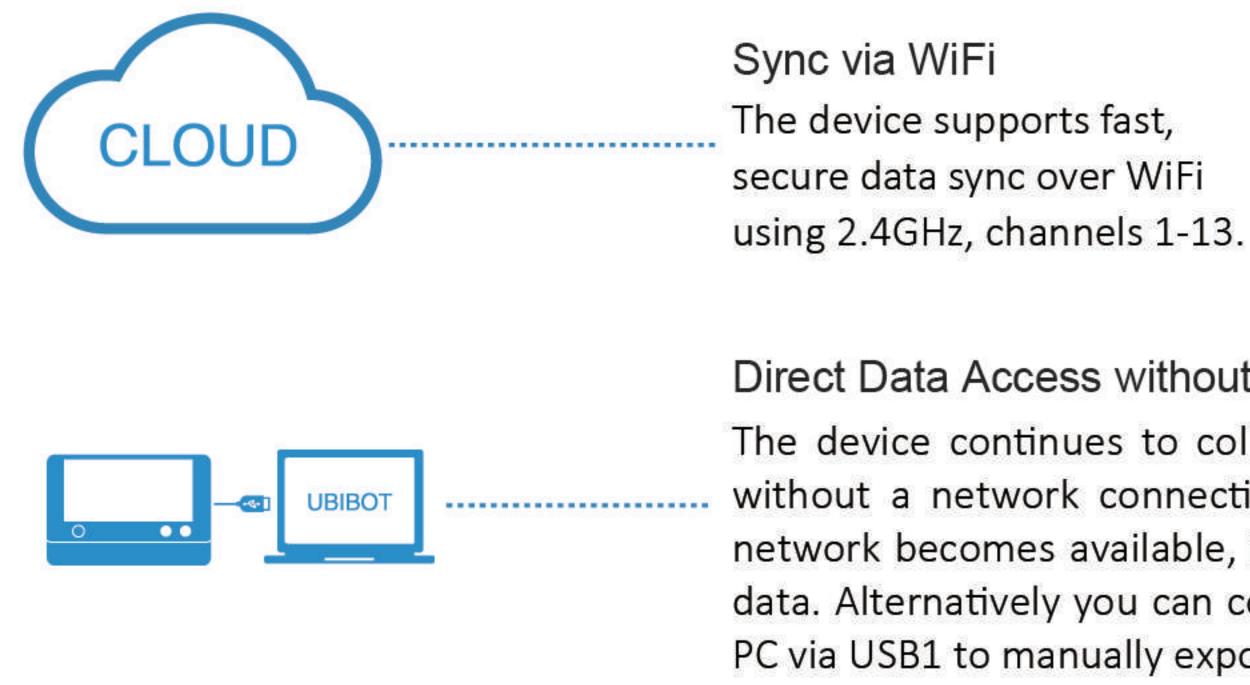








DATA SYNC MODES



 $\triangle \star$ Depending on the specific model purchased.

Direct Data Access without Network The device continues to collect data even without a network connection. When the network becomes available, it will sync the data. Alternatively you can connect to your PC via USB1 to manually export the data.

App INSTALLATION



Download the App from www.ubibot.io/setup Or Search for "UbiBot" on the App Store or Google Play. (The UbiBot App requires Android 6.0+, iOS 9.0+)



Download the Tool from www.ubibot.io/setup

(The PC Offline Tools needs Winows 7+)



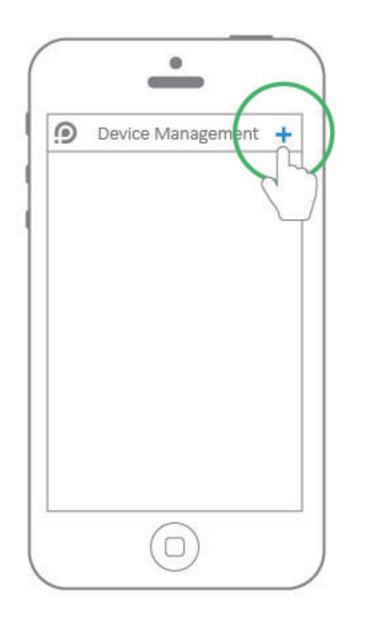




WiFi SETUP

STEP1.

Launch the App, register an account if needed and log in. On the home screen click the "+" to add your device. Scan the QR code on the back of the device, or manually enter the serial number.





Add your device

Scan the QR code

WiFi SETUP

STEP2.

Put your device into WiFi setup mode (see p.3). The indicator should flash alternately red and green and the AP icon is shown on the screen.

STEP3.

The device will ask you to enter your WiFi password. Check that the correct SSID is selected and enter the password. The App will now prompt you to go to your phone settings screen. Change to the UbiBot-xxx network and return to the App.





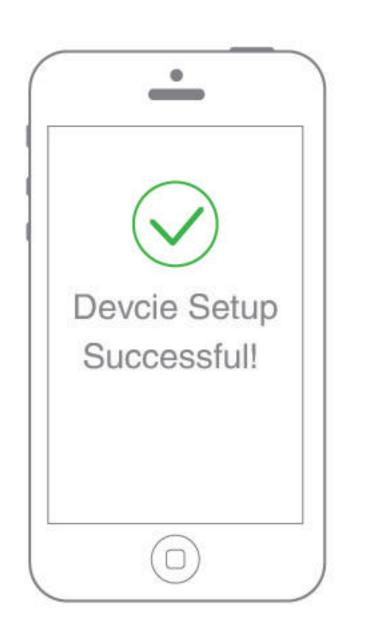
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WiFi SETUP

STEP4.

The device will now complete the setup process, register with the server and do the initial data sync. Your phone will automatically switch back to its normal WiFi network. If the connection failed, repeat the process and ensure you entered the correct WiFi details in step 3.



SETUP VIA USB CABLE

STEP1.

			\rightarrow
	My Device	WiFi SSID WiFi Password	
	Serial No.: 42H0WS1Pro Channel ID: 335 0%	 Encryption Mode Device Name Latest Data Product ID ubibot-ws1p-io Storage Used Network Usage 0B/20G 	
办 心		Export Data	



Launch the PC Offline Tools on your PC and log in.





SETUP VIA USB CABLE

STEP2.

Turn on the device and connect it to the PC using USB1.

STEP3.

Go to the setup page on the PC Offline Tools and select the device you want to configure from the list shown (make sure you select the device you just attached). Follow the instructions and fill in the necessary data on the right side of the screen. Here you can set up the network and activate the device.

ERROR CODES

- System Protection.
- WiFi Connection Failed
- 04 Device Activation Failed
- Data Save Failure



Please follow the instructions to properly configure the device. Unconfigured devices will revert to system protection mode.

Please confirm your WiFi password and check your router.

Failed to Connect to Server

Please check your router.

Please check the network details and confirm the device is properly added in the App/Direct Access Tool.

This can happen when the power is disrupted while data is being saved.







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ERROR CODES

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

Data Sync Failed Please check your network connection and ensure you haven't used up all your mobile data allowance.

TECHNICAL SPECIFICATIONS

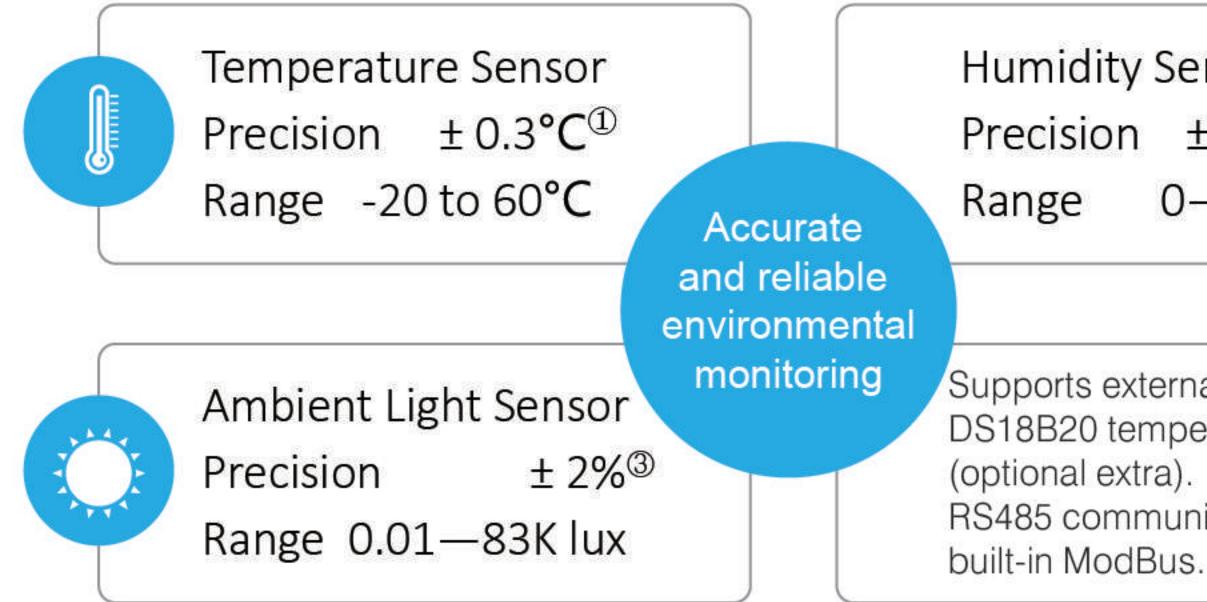
((;	WiFi, 2.4GHz
Ø	Flame resista
	4 x AA batter
•	Micro USB p
쉾	143g±3g, no
†↓	4.96'' x 0.88'
.	2 x Micro US
品	Built-in Mem
∑≓	Supports up
	Optimal wor

z, channels 1-13
ant ABS + PC
ries (not included) OR
ower (DC 5V/2A)
ot including batteries
" x 3.38"
B (one with optional embedded RS485 interface)
nory: >300,000 sensing data
to 2 DS18B20 temperature probes (optional extra)
king conditions-20–60°C, 10-90% RH

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TECHNICAL HIGHLIGHTS

The UbiBot WS1 Pro uses state-of-the-art industrial-grade sensors from Sensirion and Texas Instruments. The device integrates these sensors to create an efficient and highly-accurate IoT environmental monitoring solution.



① Quoted temperature precision applies between 0-60°C; ② Quoted precision for temperature of 25°C and RH range of 10-90%. Otherwise the precision is \pm 4% RH. 3 Quoted precision applies when light level >40 lux. The sensor precision will suffer in extreme conditions. We recommend you only use the device under the optimal conditions listed on page 17. 16/23

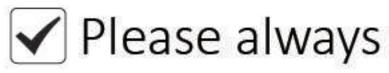
PRODUCT CARE

Humidity Sensor Precision $\pm 3\% RH^{(2)}$ 0-100% Range



Supports external waterproof DS18B20 temperature probe (optional extra). RS485 communication via







The device is not waterproof. Please keep away from water during operation, storage and shipping. The optional DS18B20 temperature probe is water proof.

|+ Always mount the device on a stable surface.

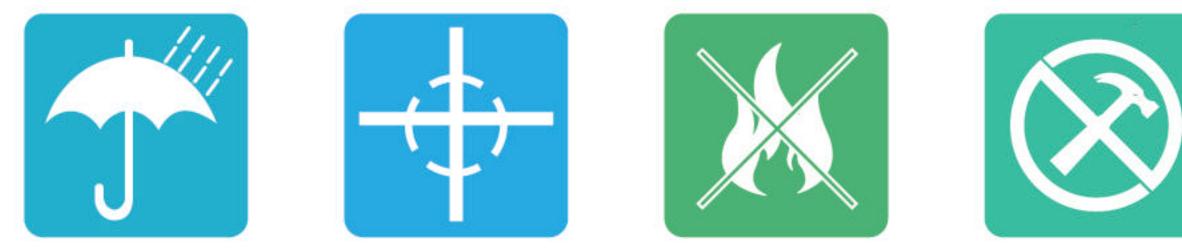
Keep away from acidic, oxidising, flammable or explosive substances.

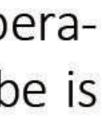
 \otimes When handling the device, avoid using excessive force and never use sharp instruments to try and open it.





Please always follow the instructions contained in this manual.











TROUBLESHOOTING

1.Network Setup Failure/ Data Sync Failure

(1) Check WiFi Password: Go through the WiFi setup again, making sure you set the correct password.

(2) WiFi Router: Check that your WiFi router has access to the Internet using another device.

③ WiFi Frequency: The device can only connect to 2.4GHz networks, channels 1-13. (4) Signal Strength. Check you are in range for your WiFi, make sure you have a good

signal.

(5) Low Battery: WiFi needs a lot of power. If your batteries are flat your device may still switch on but be unable to send data. Try replacing the batteries or use USB power. 6 Server maintenance error message. Wait a few minutes and try connecting again. If you still have problems, email customer support using the address on the back of this manual.

TROUBLESHOOTING

by Using PC Offline Tools

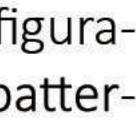
Please ensure you are using a USB data cable with 4 wires. Many cheap USB cables are only able to provide power.

3.WiFi Setup Failure

Please switch the device off and follow the steps to enter the WiFi configuration mode again. If you still cannot enter WiFi setup, try replacing the batteries.

2. Failure to Connect to PC via USB Cable/ Failure to Download Data







5.Can I use the device without a network connection? How do I access the data?

The device will continue working without a network connection and can store over 300,000 readings in its memory. Real-time readings are displayed on screen and you can access the data in the following ways:

(1) Move the device into range of WiFi, Once you are in range of the network, press the power button once to sync all data with the IoT platform.

(2) Connect the device to PC via USB cable. Use the PC Offline Tools to download data.

Still having problems? Please visit www.ubibot.io/setup/ to see more FAQs.

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, email UbiBot[®] Customer Support at support@ubibot.io 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:

the instructions.

③ Damage occurring from operating device outside the recommended temperature and humidity range, damage from contact with water, damage from applying excessive force to the device or any cables and connectors.

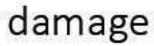
(4) Natural wear and aging of materials.

(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.

- (1) Issues arising after the warranty period has ended.

(2) Malfunction or damage caused by improper handling or not operating the device according to



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WARRANTY CARD

Thank you for buying the UbiBot WS1 Pro. If you have any problems and wish to claim under the limited warranty, first contact our customer service team using the email address on the back of this book. If Customer Service asks you to return you product to us, please complete the following details and include this form in the package.

	Product
Product Name	
Product ID	
Product Serial No.	
Date of Purchase	
Online Purchase Store	
	Custome
Name	
Phone	
Address	
Email	

REPAIR HISTORY

Details

r Details



① Only to be completed by UbiBot technicians



		0
Problems Description	Reason for Problems	Repair Descrip
Date of Repair:		Repaired by:
Problems Description	Reason for Problems	Repair Descrip
Date of Repair:	Repaired by:	



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 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 assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment 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.

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled enviroment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.