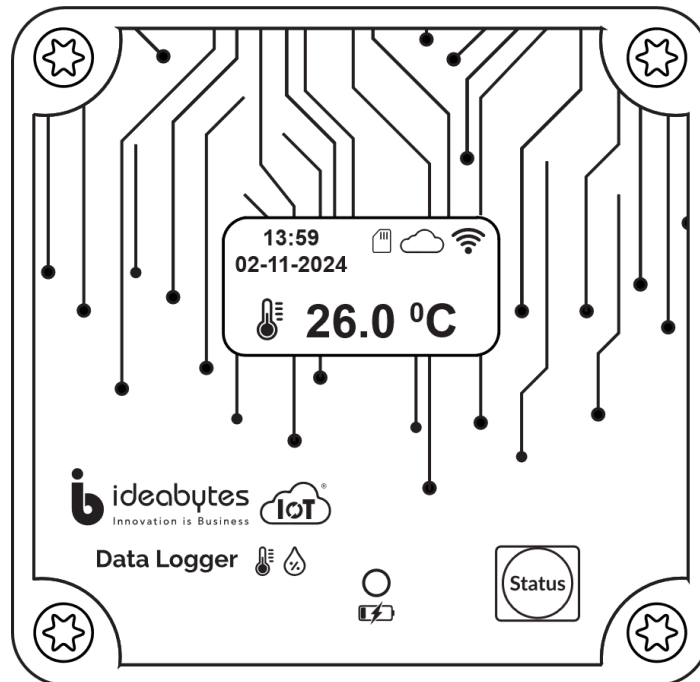


IoT Data Logger User Manual



Product Name: IoT Data logger
Model No: IBI-WDL-0525
Manufacturer: Ideabytes Software India Private Limited
Version: WDL-0525.01
Release Date: July 2025

FCC Compliance Statement (USA)

FCC ID: 2BP87-WDL0525

Compliance Statements: 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.
2. This device must accept any interference received, including, an interference that may cause undesired operation.

Caution Statements:

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Industry Canada (IC) Compliance Statement

IC ID: 34123-WDL0525

Compliance Statements: This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: 1) This device may not cause interference., 2) This device must accept any interference, including interference that may cause undesired operation of the device.

Déclarations de conformité: Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution Statements:

- This equipment complies with radio frequency exposure limits set forth by Industry Canada for an uncontrolled environment.
- This equipment should be installed and operated with a minimum distance of 20 cm between the device and the user or bystanders.

Déclarations de mise en garde:

- Cet équipement est conforme aux limites d'exposition aux radiofréquences définies par Industrie Canada pour un environnement non contrôlé.
- Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance de l'appareil et l'utilisateur ou des tiers.

INFORMATION TO THE USER

For Class A and Class B digital devices, information to the user is required to include the following statements (Section 15.105):

For a Class A digital device or peripheral, the instructions furnished to the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

For a Class B digital device or peripheral, the instructions furnished to the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: 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.

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Disclaimer: The images included in this manual have been edited and are for reference only. The actual product or screen interface may differ from the illustrations shown.

1. Introduction

Ideabytes offers a range of IoT-enabled data loggers designed for real-time environmental monitoring across various industries. These devices are equipped with aviation connector to connect the wired sensors which measures parameters like temperature, humidity, pressure, CO₂, etc. based on user sensor selection. Also, these devices are equipped with Wi-Fi, enabling remote access via mobile apps and web dashboards. Ideabytes' data loggers are ISO-certified, VAPT-tested, and tailored to meet specific customer needs.

2. Safety Information

- Do not expose the device to water or corrosive environments.
 - Use only the specified power adapter (5V, 2A).
-

3. Package Contents

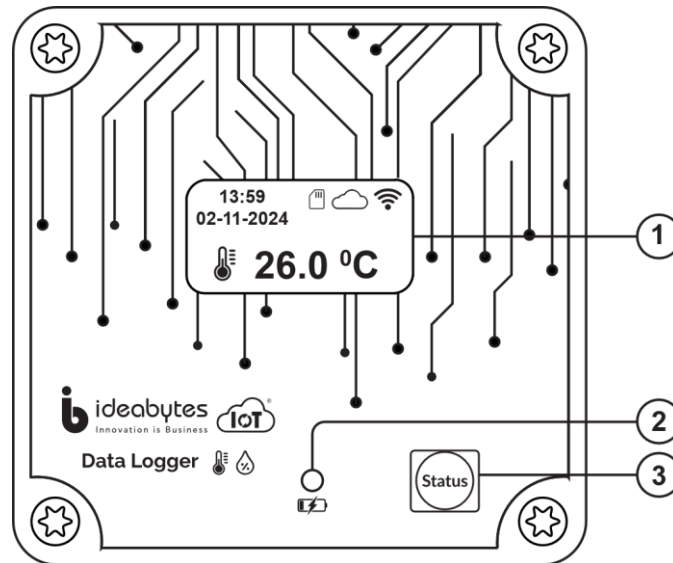
- Data Logger Unit ×1
 - Power Adaptor and Cable ×1
 - Calibration Certificate ×1 (Optional)
-

4. Hardware Features

- 1.3" 128x64 OLED monochrome Graphical Display.
- Internal Li-Ion 4400mAh battery with under/over voltage protection, up to 24 Hrs battery back-up during power failure.
- Plug & Play Device.
- Wi-Fi 802.11 b/g/n 2.4GHz.
- Internal storage of 100 days at sampling frequency of 15 Minutes.
- DC Input Voltage 5V/1A.
- IP64 Rated.

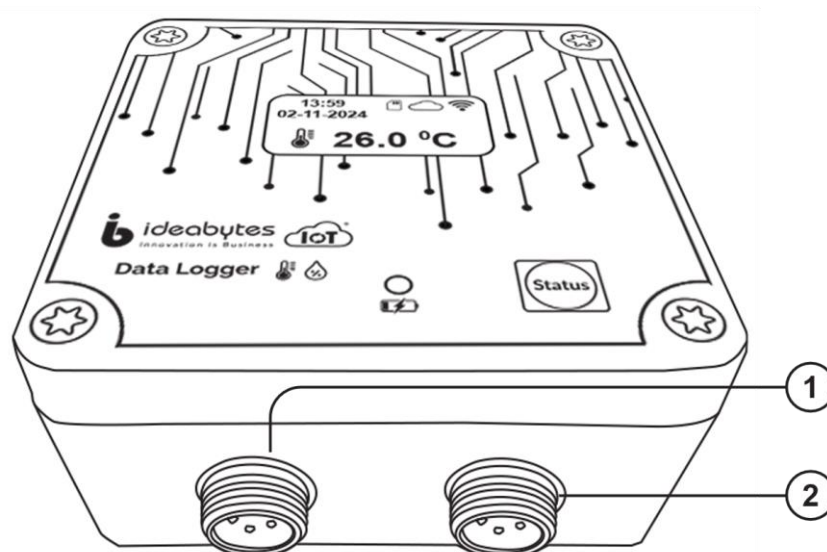
5. Product Overview

- Front Panel:



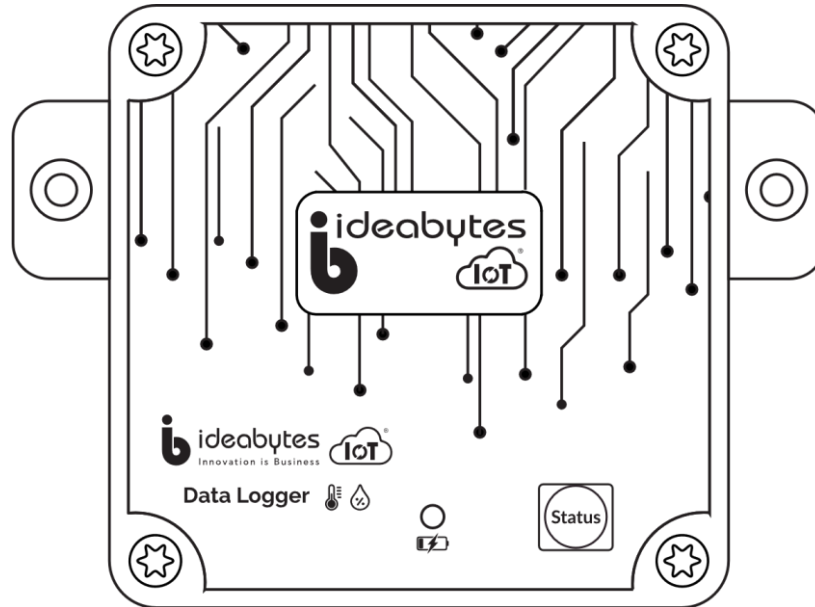
1. OLED Display
2. Status LED
3. Status Button

- Bottom Panel:



1. Power Port
2. Sensor Port

- Right and Left Panel:



1: Wall Mountings on each side

6. Installation Guide

1. Mount the device on a vertical surface using the provided wall mount kit.
2. Connect the sensor (if external) to the sensor port.
3. Plug in the power cable to a 5V/2A source.
4. The status LED turns green indicating device is charging.

7. Device Mode Instructions

- Device Modes: Pressing the status button will change the device to the next mode. It keeps switching modes each time you press the button.
- Modes are as follows:
 1. Data Mode:

DATA MODE

RF:4.0MB

2. Config Mode:

CONFIG MODE

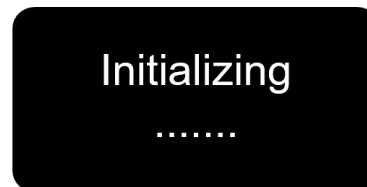
3. Power OFF:

POWER OFF
Please Wait

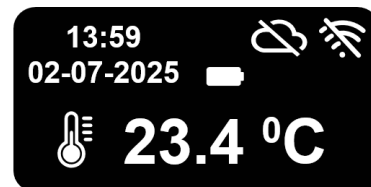
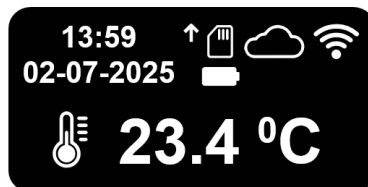
8. Device Modes Operation

1. Data Mode operational description

1. In this mode, the device first shows the logo and a message saying “Initializing...” on the OLED screen.



2. After initialization, the home screen appears as shown in below figure:

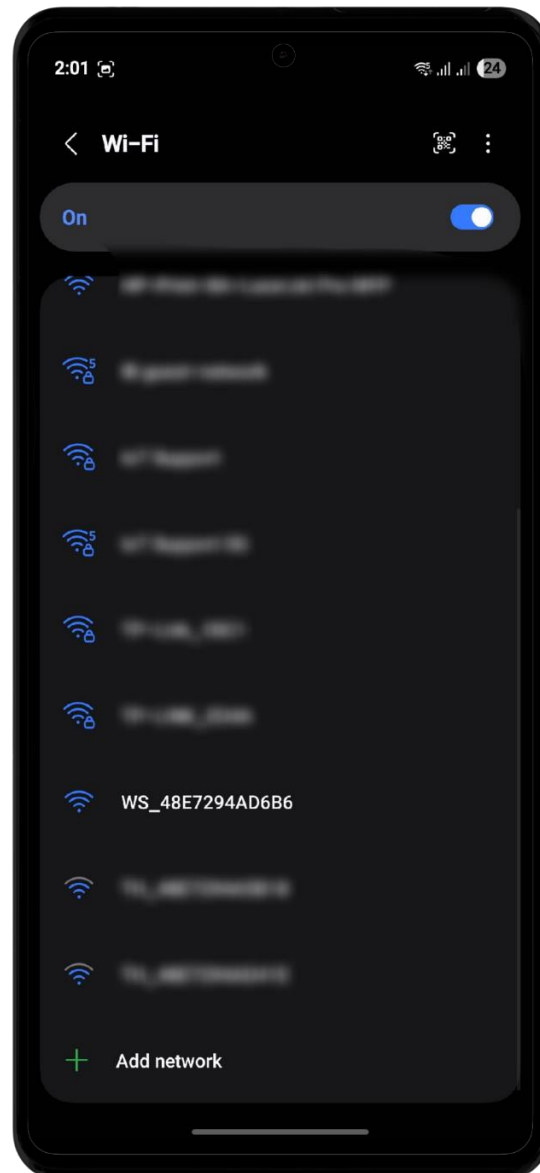


- Date and time
- Temperature reading
- Wi-Fi connection status and signal strength
- Cloud icon show Online or Offline status of device
- Battery level
- A folder icon (if data is being saved locally when Wi-Fi is not connected)

2. Config Mode (Configuration Mode) Description

To configure the device, follow these steps:

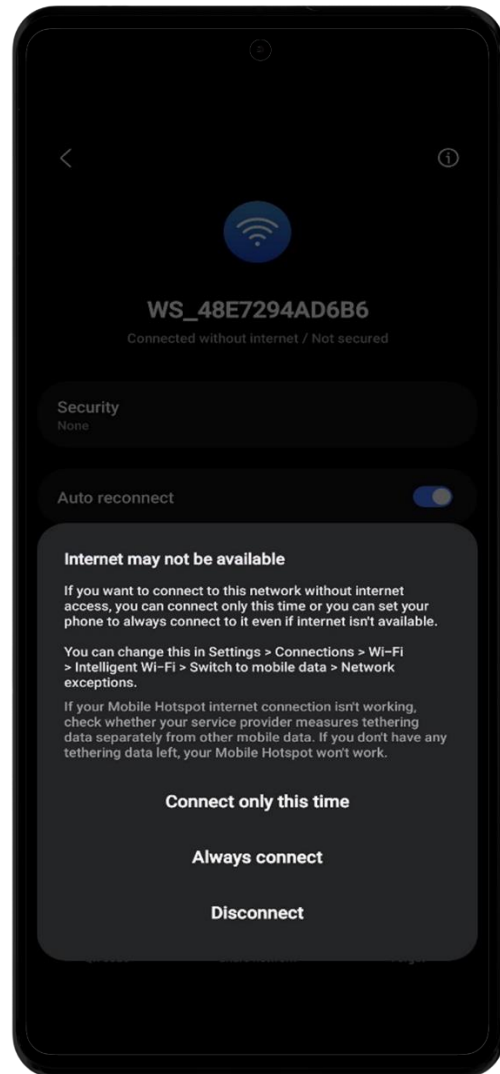
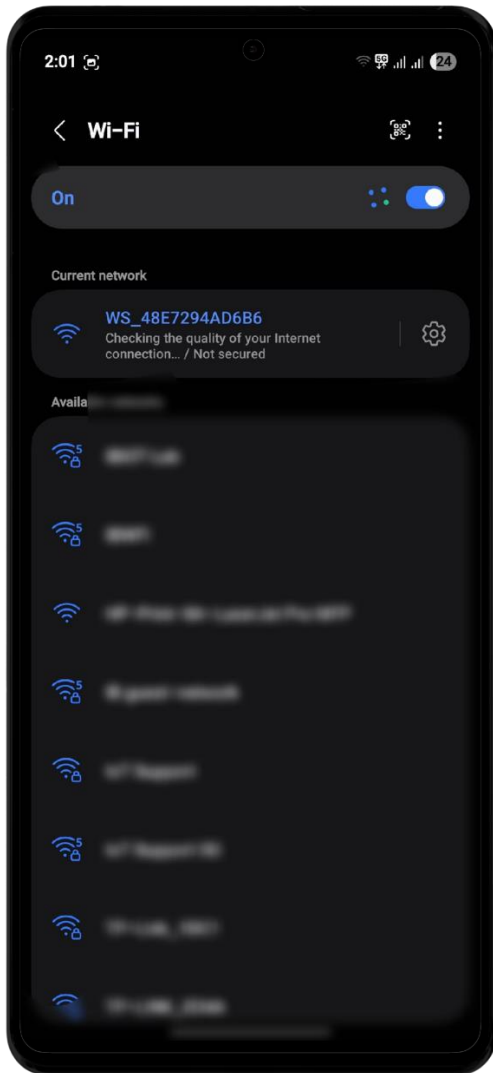
1. On your mobile or laptop, go to **Wi-Fi settings** as shown below



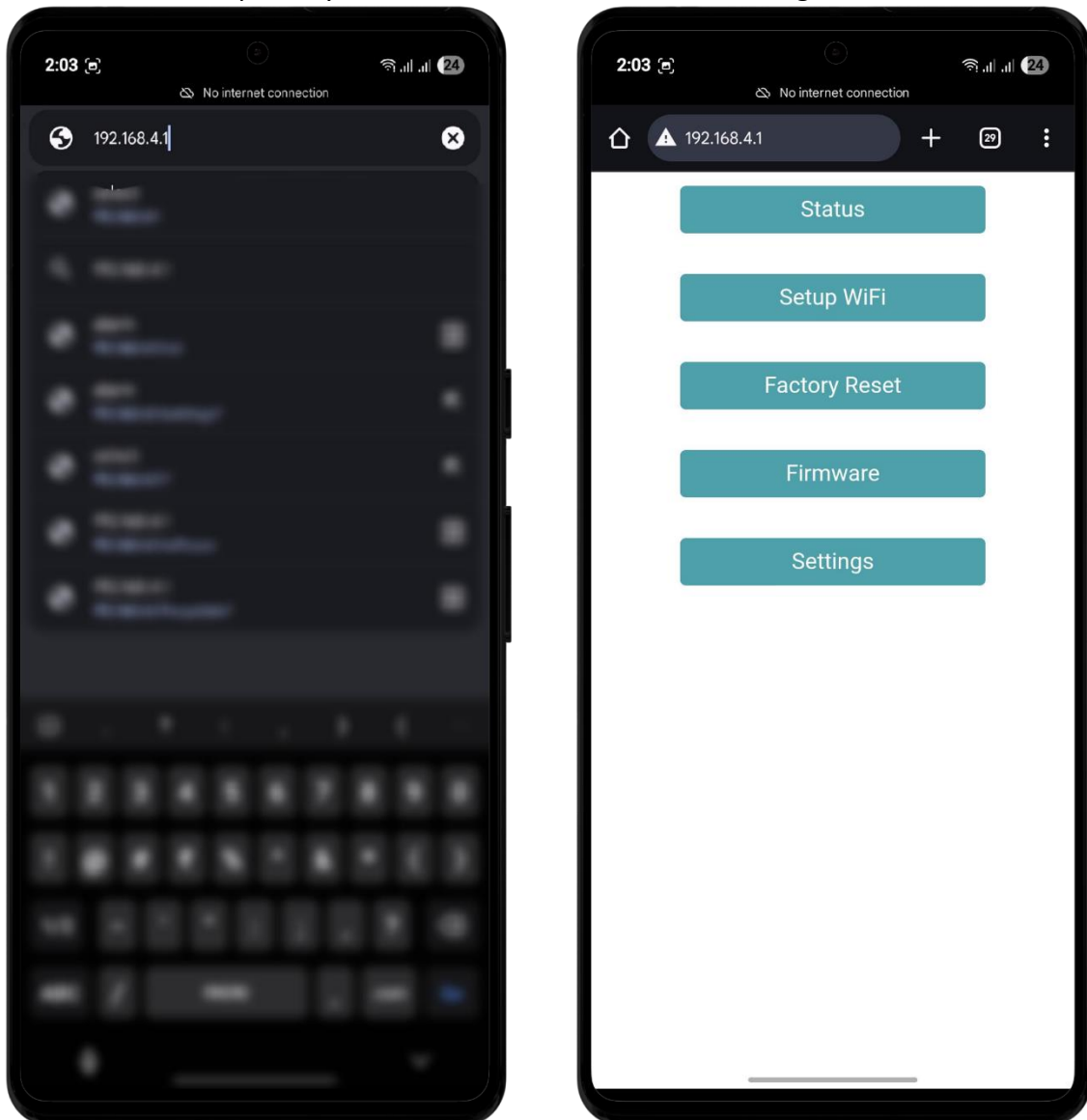
2. Look for the device name — it will display as the serial number shown on the OLED screen.

CONFIG MODE
Serial Number
WS_48E7294AD6B6
FW ver: 5.01.03 RF:4.0MB

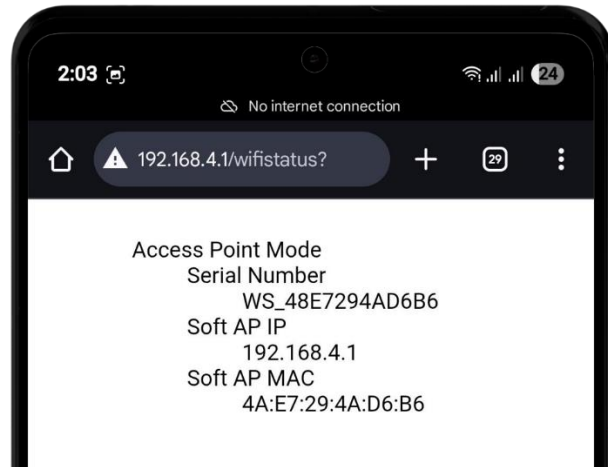
3. Tap on the device name and wait a few seconds, when a pop-up appears, select **“Always connect”**.



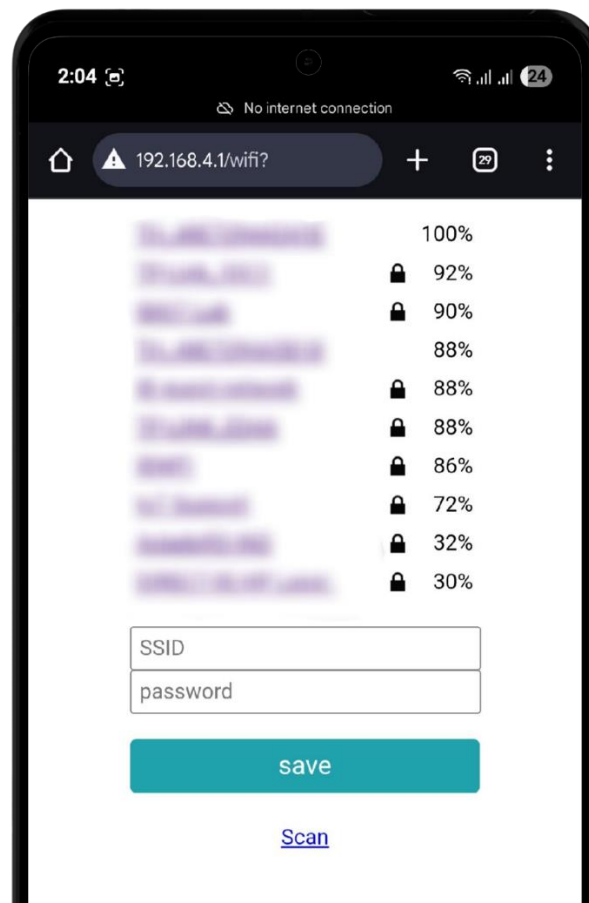
4. Once connected, open any web browser and enter the following static IP: **192.168.4.1**



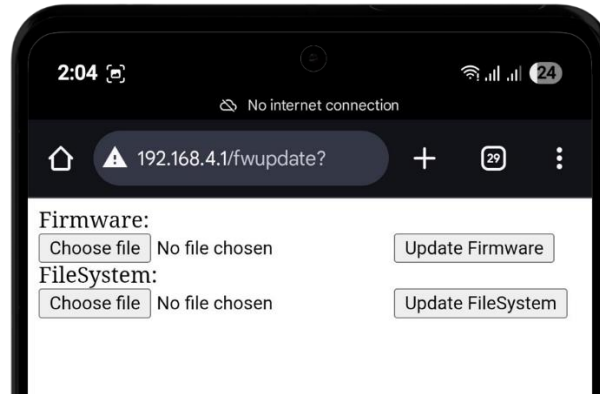
5. You will now see 5 options on the screen:
- Shows the device information, including:
 - MAC ID
 - IMEI number



- Setup Wi-Fi
 - A list of available Wi-Fi networks will appear.
 - Select your Wi-Fi network and enter the password.
 - Click Save to connect.
 - If your Wi-Fi is not listed, click Scan, wait a few seconds, or move closer to the Wi-Fi router.



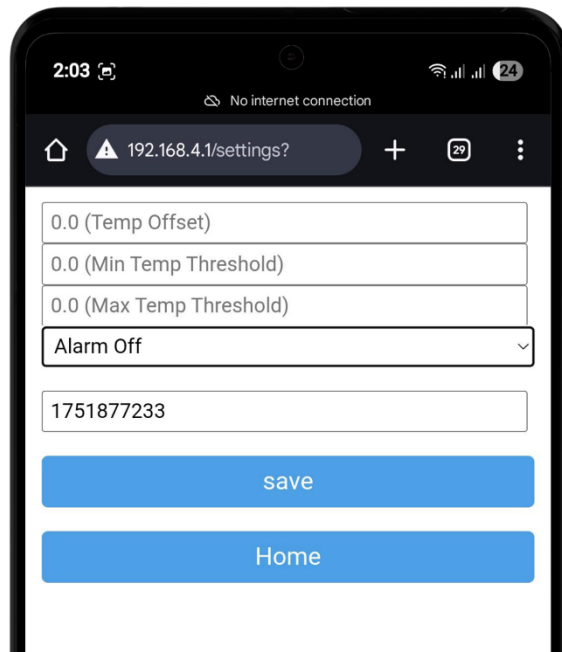
- Firmware Update
 - You will see an option to choose a file.
 - Click **Choose File** and select the correct firmware file from your device.



- Reboot
 - Clicking this will restart the device.
- Settings

Allows you to:

 - Enter temperature offset (if required)
 - Set Minimum and Maximum temperature limits
 - Set the system time
 - Click Save after entering all details



- **Power OFF:**

1. Wait for few seconds until the following pop ups on OLED:

**Press Status
Button to Power
OFF Device**

9. Troubleshooting

Issue	Possible Cause	Solution
Charge indication LED turns OFF	Battery Fully charged	Remove and reconnect the adaptor
Device offline	Wi-Fi router couldn't provide Internet Wi-Fi password might have changed Any Firewall restrictions.	Connect network provider
Sensor Error	Loose connection or place beyond sensor limit	Remove and connect the sensor properly

10. Technical Specifications

Parameter	Value
Power Supply	5V DC, 2A
Connectivity	Wi-Fi 2.4 GHz
Operating Temperature	-20°C to +50°C
Data Upload Interval	15 min – 1 Hour

11. Warranty & Support

This product comes with a **1-year warranty** covering manufacturing defects.
 For support, contact us at: support@ideabytesiot.com

Helpline [1800 571 5566](tel:18005715566) - Press 1

12. Certifications

- Manufactured under ISO 9001:2005.
- Original Equipment Manufacturer (OEM) approved by Quality Council of INDIA (QCI).
- VAPT approved as per industry security standards.
- ISO 9001:2015 Certified Company.
- ISO/IEC 27001:2022 Certified Company.
- ISO/IEC 27017:2015 Certified Company.