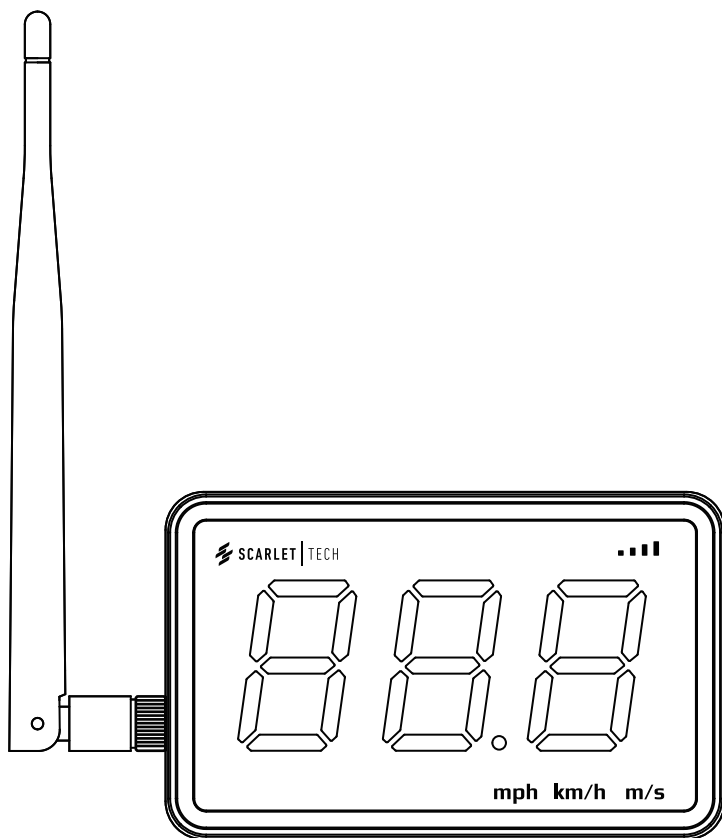




SCARLET | TECH



# WindView

## Wireless Display

## User Guide

---

# Contents

---

- Introduction -----2
- 1. Package Contents-----3
- 2. Product Overview -----4
  - 2.1 Front View -----4
  - 2.2 Rear View -----4
  - 2.3 Buttons -----5
    - 2.3.1 Quick Actions on the Main Screen -----5
- 3. Technical Specifications-----6
- 4. Installation & Setup-----7
  - 4.1 Preparation-----7
    - 4.1.1 Antenna Installation & Adjustment -----7
    - 4.1.2 Power Supply -----7
  - 4.2 Power On & Off -----8
  - 4.3 Navigating the Settings Menu -----8
  - 4.4 Sensor Pairing -----9
    - 4.4.1 Sensor Address Pairing -----9
    - 4.4.2 Sensor Selection (Product Type) ----- 10
  - 4.5 Change Display Unit ----- 11
  - 4.6 Configure Wind Alarm ----- 11
    - 4.6.1 Set Alarm Threshold ----- 11
    - 4.6.2 Turn Alarm On & Off ----- 11
  - 4.7 Adjust Display Brightness ----- 12
- 5. Operation Interface ----- 13
  - 5.1 Menu Structure ----- 13
  - 5.2 Main Screen (Current Wind Speed) ----- 14
  - 5.3 Wind Speed Unit ----- 14
  - 5.4 Alarm On / Off ----- 15
  - 5.5 Wind Speed Alarm Threshold ----- 15
  - 5.6 Sensor Address Pairing ----- 16
  - 5.7 Sensor Selection ----- 16
  - 5.8 System Information ----- 17
    - 5.8.1 Sensor Battery Level ----- 17
    - 5.8.2 Firmware Version ----- 17
    - 5.8.3 Factory Reset ----- 18
- 6. Safety, Maintenance, & Warranty ----- 19
  - 6.1 Warranty Conditions ----- 19

---

# Introduction

---

WindView is a real-time wind speed display designed for industrial safety management. It wirelessly receives live data from compatible Scarlet sensors up to 500 metres away and presents it on an easy-to-read 3-digit display. A configurable wind speed alarm triggers an instant alert when conditions exceed the preset limit — keeping crews informed and ready to act. Mains-powered and permanently mounted, WindView operates continuously — ensuring wind conditions are monitored at all times for uninterrupted on-site safety management.

## Compatible Sensors

- WR-3 Plus Wind Speed Sensor (A)
- WL-21 Wind Speed & Direction Sensor (B)

---

# 1. Package Content

---

1. WindView (Wireless Display)
2. Sub-1 GHz Antenna
3. Power Adapter with Interchangeable Plugs
4. User Manual

( 1 )



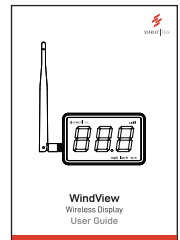
( 2 )



( 3 )



( 4 )

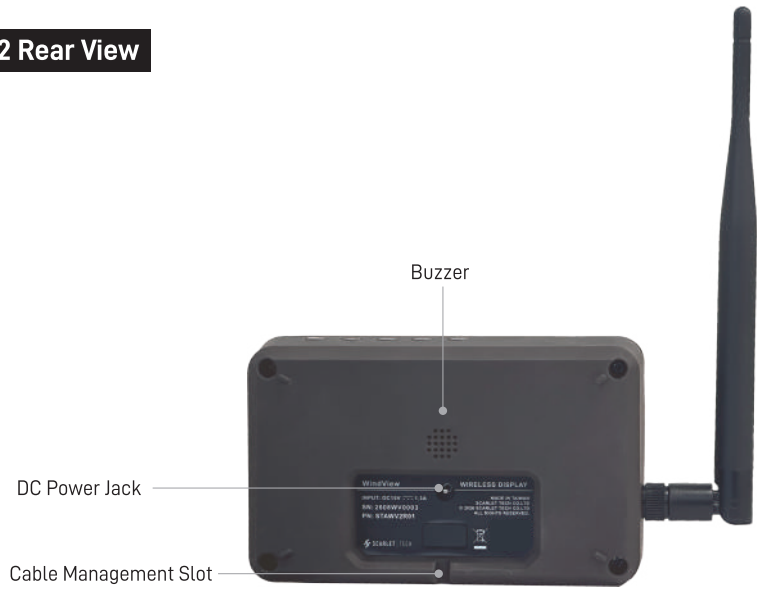


# 2. Product Overview

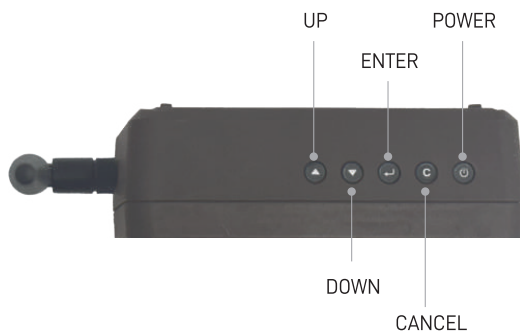
## 2.1 Front View



## 2.2 Rear View



## 2.3 Buttons



The following table describes the function of each button.

| Icon | Name   | Functions                         | Long Press ( $\geq 2.5s$ ) |
|------|--------|-----------------------------------|----------------------------|
|      | POWER  | Power ON                          | Power OFF                  |
|      | CANCEL | Cancel; Return to previous screen | Turn Alert ON or OFF*      |
|      | ENTER  | Select; Confirm                   | -                          |
|      | DOWN   | Decrease value; Next option       | Fast decrease              |
|      | UP     | Increase value; Previous option   | Fast increase              |

\* Only works on the Main Screen.

### 2.3.1 Quick Actions on the Main Screen

| Action                                                      | Function                                        |
|-------------------------------------------------------------|-------------------------------------------------|
| Long press <b>CANCEL</b>                                    | Turn audible alarm & flashing alert ON or OFF   |
| Hold <b>ENTER</b> , and then press <b>UP</b> or <b>DOWN</b> | Adjust display brightness (Low / Medium / High) |

---

# 3. Technical Specifications

---

| Item                   | Description                                                              |
|------------------------|--------------------------------------------------------------------------|
| Compatible Wind Sensor | WR-3 Plus Sensor, WL-21 Sensor                                           |
| Wind Speed Unit        | m/s, km/h, mph                                                           |
| Display Resolution     | 0.1 (0.0–99.9), 1 (≥ 100)                                                |
| Brightness Level       | 3 levels (Low, Medium, High)                                             |
| Indicator              | Wireless signal indicator                                                |
| Button                 | POWER, UP, DOWN, CANCEL, ENTER                                           |
| Alarm                  | Built-in buzzer (≥ 80 dB), flashing display                              |
| Antenna                | External Sub-1 GHz antenna (SMA connector)                               |
| Power Supply           | 20W AC adapter<br>Input: 100–240V AC, 50/60 Hz<br>Output: 15V DC / 1.3 A |
| Operating Temperature  | 0 – 40 °C                                                                |
| Operating Humidity     | 20 – 80% RH (non-condensing)                                             |
| Storage Temperature    | -20 – 60 °C                                                              |
| Storage Humidity       | 20 – 80% RH (non-condensing)                                             |
| Housing Material       | PC                                                                       |
| Dimensions             | 132 mm (L) × 43 mm (W) × 82 mm (H)                                       |
| Digit Height           | 40 mm                                                                    |
| Weight                 | 210 g (device only)                                                      |

---

## 4. Installation & Setup

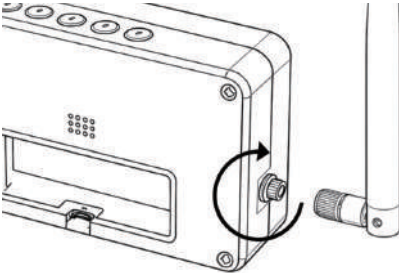
---

### 4.1 Preparation

#### 4.1.1 Antenna Installation & Adjustment

WindView is equipped with an omnidirectional foldable antenna.

1. Attach the antenna to the SMA connector on the left side of WindView.



2. Fine-tune the antenna angle toward the wind sensor for optimal signal strength.

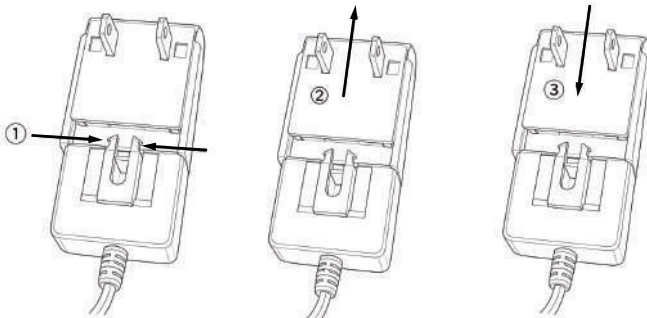
*Note: Maintain a clear Line-of-Sight (LoS) between the sensor and WindView to minimize signal interference.*

#### 4.1.2 Power Supply

The DC power jack is located on the rear of the WindView. A cable management slot is located on the rear bottom edge of the device, allowing the power cord to route out neatly. The package includes an AC power adapter with interchangeable plug attachments.

#### Switch the Power Adapter Plug Attachment

1. Press and hold the release buttons on both sides of the adapter.
2. Pull the plug attachment forward to remove it.
3. Slide the required plug attachment into the adapter until it clicks into place.



## 4.2 Power On & Off

### 4.2.1 Power On

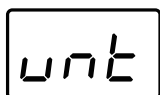
- Connect WindView to a power outlet using the adapter. The device will turn on automatically once power is supplied.
- If the device was manually turned off while the power adapter remained connected, press the **POWER** on the top panel to power on the device.

### 4.2.2 Power Off

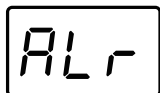
1. Press and hold the **POWER** on the top panel for 3 seconds to turn off the device.
2. Disconnect the power adapter.

## 4.3 Navigating the Settings Menu

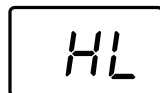
- Press **UP** or **DOWN** to cycle through the settings:



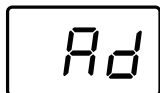
[ unt ] (Wind Speed Unit)



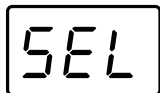
[ ALr ] (Alarm On/Off)



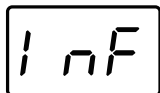
[ HL ] (Wind Speed Alarm Threshold)



[ Ad ] (Sensor Address Pairing)



[ SEL ] (Sensor Selection)



[ InF ] (System Information)

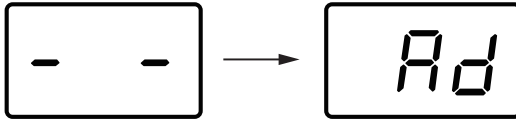
- Press **ENTER** to configure the available parameters.
- Press **CANCEL** to return to the main screen.

## 4.4 Sensor Pairing

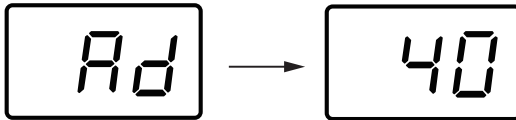
WindView must be paired with the wind sensor to receive data readings.

### 4.4.1 Sensor Address Pairing

1. On the main screen [ - - ], press **UP** or **DOWN** to switch to [Ad].



2. Press **ENTER**. The screen shows the current address (Default: [40] ).



3. Find Scarlet sensor address (AD) number labeled on the sensor body.



4. Press **UP** or **DOWN** to select the number to match, then press **ENTER** to apply.



5. The screen shows [YES] to confirm, then returns to the [Ad]

6. Press **CANCEL** to return to the main screen.

Wind readings will display on the main screen once connected.

*Note: If there is no connection after configuring the AD, please check the Sensor Selection.*

#### ■ 4.4.2 Sensor Selection (Product Type)

1. On the main screen [ - - ], press **UP** or **DOWN** to switch to [SEL].



2. Press **ENTER**. The screen shows the current product option.

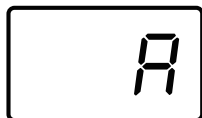


3. Press **UP** or **DOWN** to select the product option:

- a. Select [A] for WR-3 Plus Sensor
- b. Select [b] for WL-21 Sensor



[A] WR-3 Plus



[b] WL-21



4. Press **ENTER** to apply. The screen shows [YES] to confirm, then returns to [SEL].

5. Press **CANCEL** to return to the main screen.

Wind readings will display on the main screen once connected.

## 4.5 Change Display Unit

1. On the main screen [ - - ], press **UP** or **DOWN** to switch to [unt].



2. Press **ENTER**. The screen shows the current option.



3. Press **UP** or **DOWN** to select the display unit:

- a. Select [1] for mph
- b. Select [2] for km/h
- c. Select [3] for m/s

4. Press **ENTER** to apply. The screen shows [YES] to confirm, then returns to [unt].

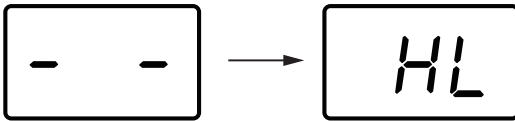
5. Press **CANCEL** to return to the main screen.

*Note: Always check the alarm threshold after changing the display unit (Refer to Set Alarm Threshold).*

## 4.6 Configure Wind Alarm

### 4.6.1 Set Alarm Threshold

1. On the main screen [ - - ], press **UP** or **DOWN** to switch to [HL].



2. Press **ENTER**. The screen shows the current threshold value. (Default: 18)



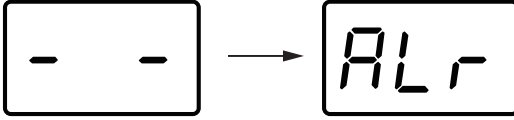
3. Press **UP** or **DOWN** to adjust the value, then press **ENTER** to apply.

4. The screen shows [YES] to confirm, then returns to [HL].

5. Press **CANCEL** to return to the main screen.

## 4.6.2 Turn Alarm On & Off

1. On the main screen [ - - ], press **UP** or **DOWN** to switch to [ALr].



2. Press **ENTER**. The screen shows the current alarm mode. (Default: On)
3. Press **UP** or **DOWN** to switch between On and Off, then press **ENTER** to apply.
4. The screen shows [YES] to confirm, then returns to [ALr].
5. Press **CANCEL** to return to the main screen.

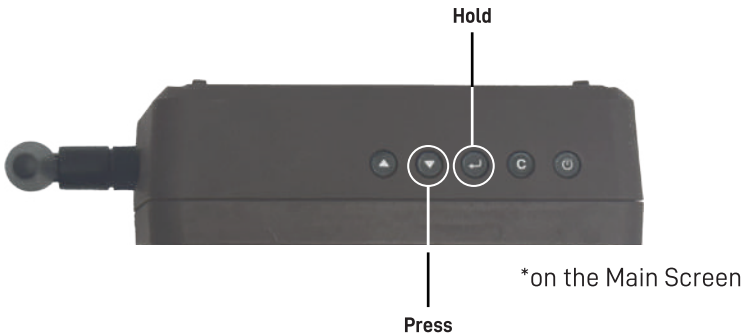
**Alarm Behavior** (When wind speed exceeds the threshold)

- On: Buzzer beeps and screen flashes.
- Off: No alert is triggered.

*Note: Long press **CANCEL** while on the main screen to quickly turn the alarm on or off.*

## 4.7 Adjust Display Brightness

- Press and hold **ENTER**, then press **UP** or **DOWN** to adjust the brightness (3 levels: High, Medium, Low) on the Main Screen.
- Release the buttons to apply.

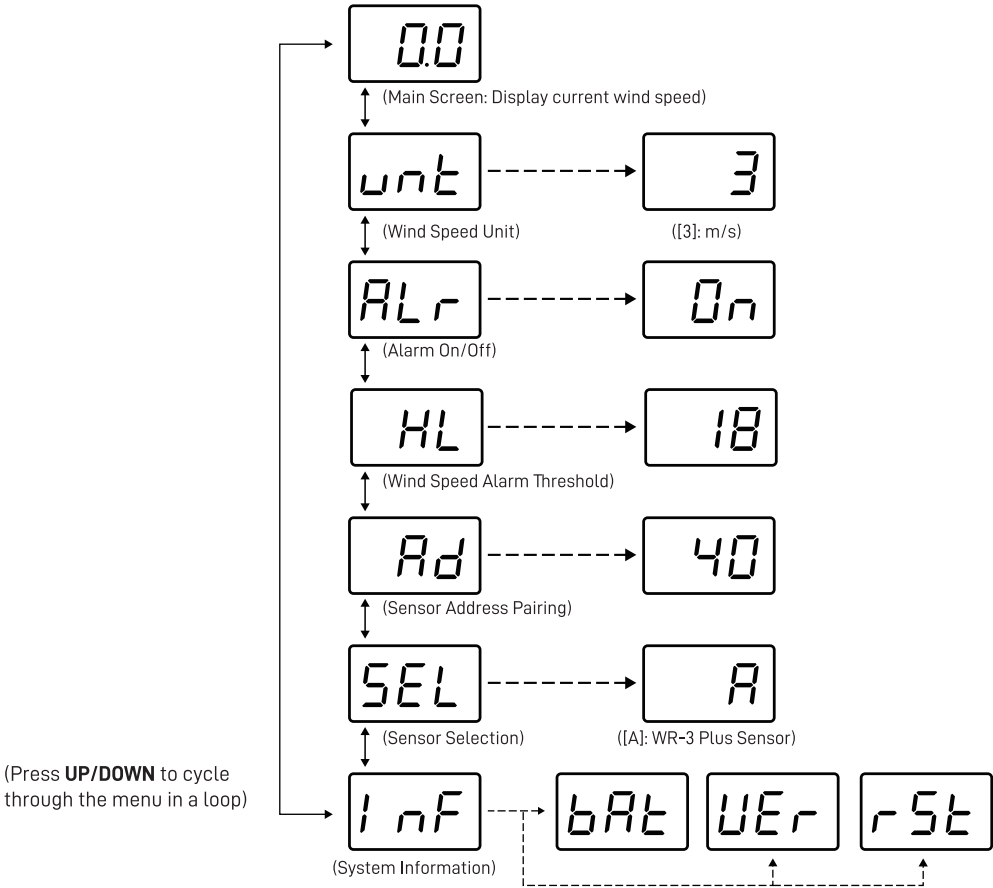


# 5.Operation Interface

After powering on, the device enters the Main Screen to display real-time wind speed data from the sensor. Refer to the diagram below for the menu structure.

- Press **UP** or **DOWN** to navigate through the Main Screen and Settings Menus, or switch settings options.
- Press **ENTER** to confirm selections, save settings, or enter submenus.
- Press **CANCEL** to return to the previous page or exit without saving.

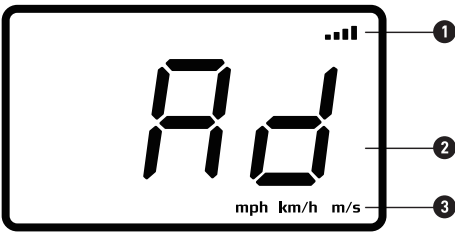
## 5.1 Menu Structure



*Note:*

- Automatically returns to the Main Screen after 60 seconds of inactivity.
- Press **CANCEL** while in the Settings Menu to return to the Main Screen.

## 5.2 Main Screen (Current Wind Speed)



| Number | Name                   | Definition                                                                                                                                                                               |
|--------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Wireless Signal Status | Wireless signal strength between sensor and WindView.                                                                                                                                    |
| 2      | Wind Speed             | Current wind speed. <ul style="list-style-type: none"><li>• <b>Below 100:</b> Display with one decimal place.</li><li>• <b>100 or above:</b> Display as a three-digit integer.</li></ul> |
| 3      | Wind Speed Unit        | Current wind speed unit (mph, km/h, m/s)                                                                                                                                                 |

## 5.3 Wind Speed Unit



Configure the wind speed unit.

• [ 1 ]: mph



• [ 2 ]: km/h



• [ 3 ]: m/s (Default)



## 5.4 Alarm On/Off



Configure the wind alarm status.

- [On]: Alarm On (Default)



- [OFF]: Alarm Off



**Alarm Behavior** (When wind speed exceeds the threshold)

- On: Buzzer beeps and screen flashes.
- Off: No alert is triggered.

*Note: Long press **CANCEL** while on the main screen to quickly turn the alarm on or off.*

## 5.5 Wind Speed Alarm Threshold



Configure the threshold value for wind alarm.

- [18]: Alarm threshold value (Default: 18)



## 5.6 Sensor Address Pairing



Configure the wireless address of the wind sensor to establish pairing.

- [40]: Sensor wireless address (AD; Default: 40)



## 5.7 Sensor Selection



Select the wind sensor product type.

- [A]: WR-3 Plus Sensor (Default)
- [b]: WL-21 Sensor



## 5.8 System Information



Check device status and system information.

### 5.8.1 Sensor Battery Level



Show connected sensor battery level

- [100]: Battery power percentage of the wind sensor.



### 5.8.2 Firmware Version



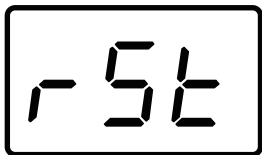
Check WindView firmware version

- [C01]: Version number will scroll across the screen.

For example: C0165

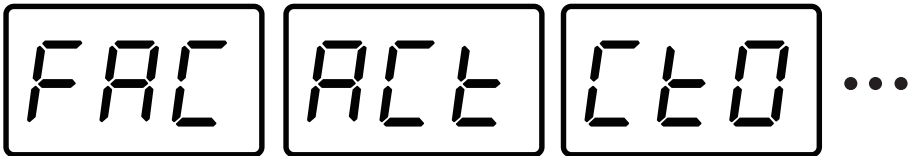


### 5.8.3 Factory Reset

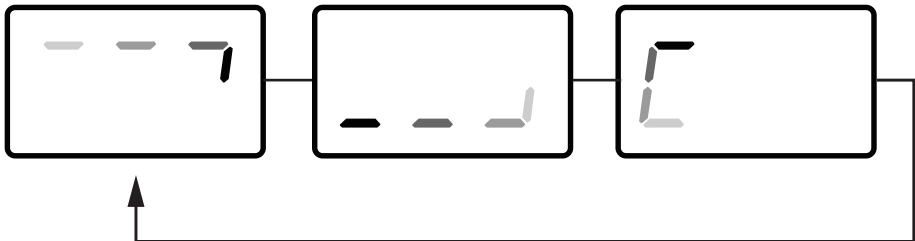


Restore device to factory settings (erases all user configurations).

- [FACtOrY rESet]: Factory reset will scroll across the screen.



Press **ENTER** to execute. The screen will display scrolling bars, then reboot and return to the Main Screen.



---

## 6. Safety, Maintenance, & Warranty

---

Failure to follow these instructions may result in incorrect readings or unsafe conditions.



Do not open the device.  
Risk of electric shock.  
No user-serviceable parts inside.



Indoor use only.  
For outdoor applications, install the device in a suitable protective enclosure (IP66 or higher recommended).



Install the display and sensors according to the instructions to ensure proper operation.



This device is a monitoring tool.  
Always follow site safety procedures and use professional judgment.

### 6.1 Warranty Conditions

This instrument is guaranteed for a one-year limited warranty against material or manufacturing defects, in accordance with our general sales conditions. During the warranty period, Scarlet Tech reserves the right to decide either to repair or replace the product.

Should you need any reason to return the instrument for repair or replacement, obtain prior authorization with the local distributor from whom you bought it. Please use the original packaging for return. Do not forget to enclose a report describing the reasons for returning (detected fault). Any damage that occurred in transit due to non-original packaging will be charged to the customer.

#### **Scarlet Tech's One-year Limited Warranty does NOT apply to:**

- Accessories and batteries (not covered by warranty)
- Repairs made necessary by improper use or improper combination with incompatible accessories or equipment.
- Repairs made necessary by improper shipping material causing damages in transit.
- Repairs made necessary by previous attempts for the repair carried out by non-skilled or unauthorized personnel.
- Instruments for whatever reason modified by the customer himself without the explicit authorization of our Technical Dept.

*The contents of this manual may not be reproduced in any form whatsoever without the authorization from Scarlet Tech.*

#### **FCC Compliance Statement**

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.

