



# OL0119-G31

# User Manual

version:1.0.22

Win-Global Technology

**OPTO4L**

# CO<sub>2</sub> Traffic Light

 **Bluetooth®**



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# OL0119 device introduction

- Please turn on the power to charge, OL0119 will be shown with a green light.

Key Function : Device off / Device on /  Device on and Mute

Power display is viewed by APP

- The light matches the color range will continue to display When powered by USB.


- Battery Powered Mode (Factory Setting)

The CO<sub>2</sub> concentration is within the range of the green light, the light is displayed every 60s.

The CO<sub>2</sub> concentration is within the range of the yellow light, the light is displayed every 30s.

The CO<sub>2</sub> concentration is within the range of the red light, the light is displayed every 15s.

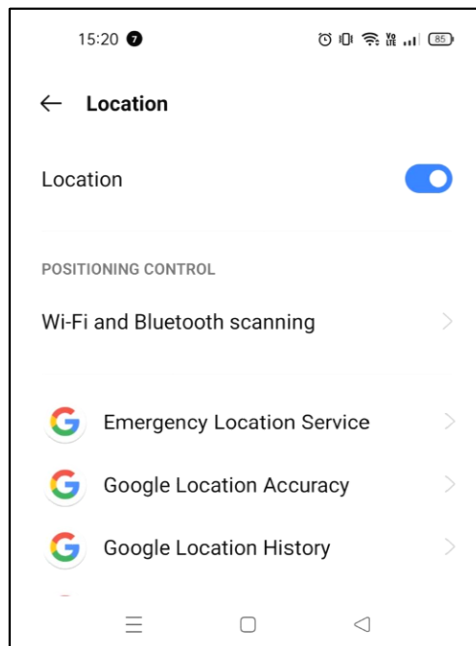
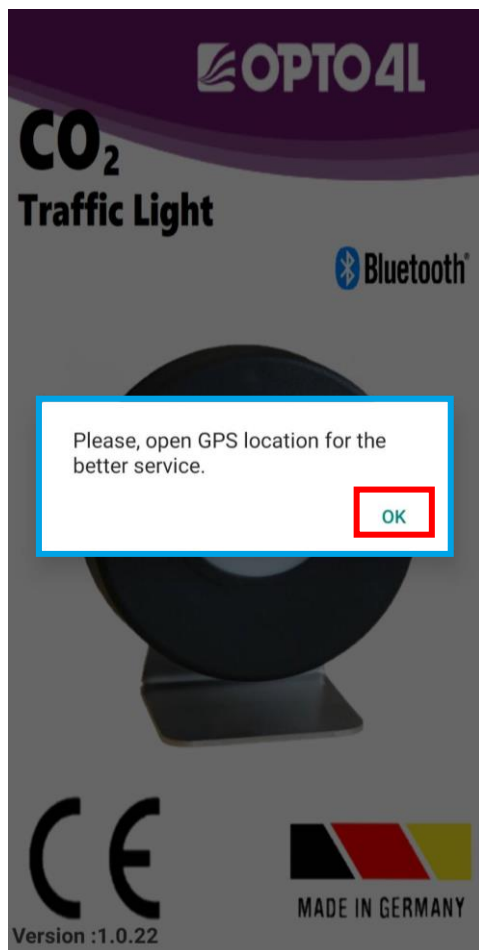


Please choose on or  when charging.



Continuous green light shows when charging.

# Set Location Permission (1)

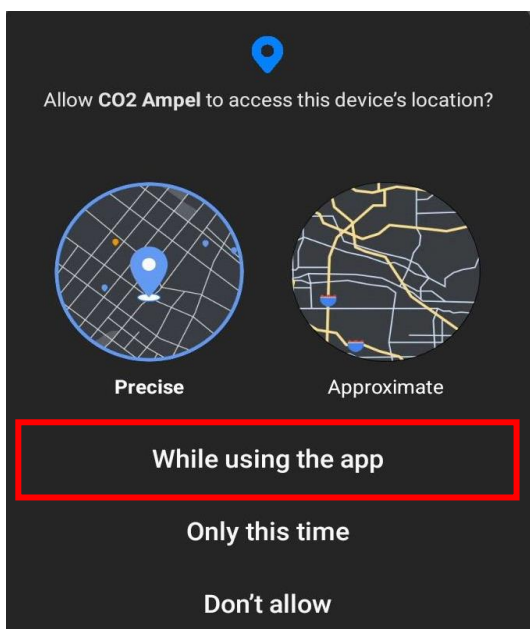


1. If GPS function is not enabled, a pop-up window will appear.  
Please press the "OK" button.
2. After pressing the "OK" button, you will be taken to this page.  
Please enable GPS function.

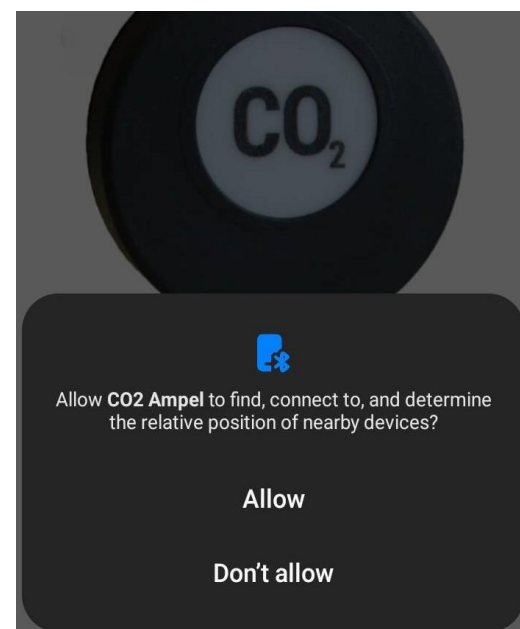
**Note: For device with Android 10 or higher version, GPS must be turned on for Bluetooth to work.**

# Set Location Permission (2)

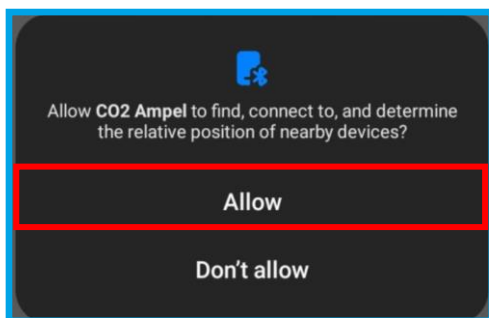
1. When the location access permissions appear, select "Precise" and click "While using the app".



2. When location access appears, you should change to use "Precise" for GPS to turn on successfully.



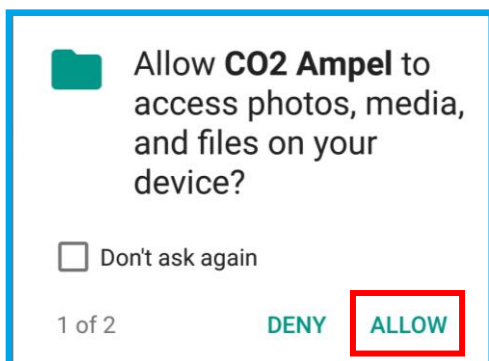
# Set Bluetooth And Storage Permission



Please press the “Allow” option. (Bluetooth scan permission)  
[For Android 12 or higher]

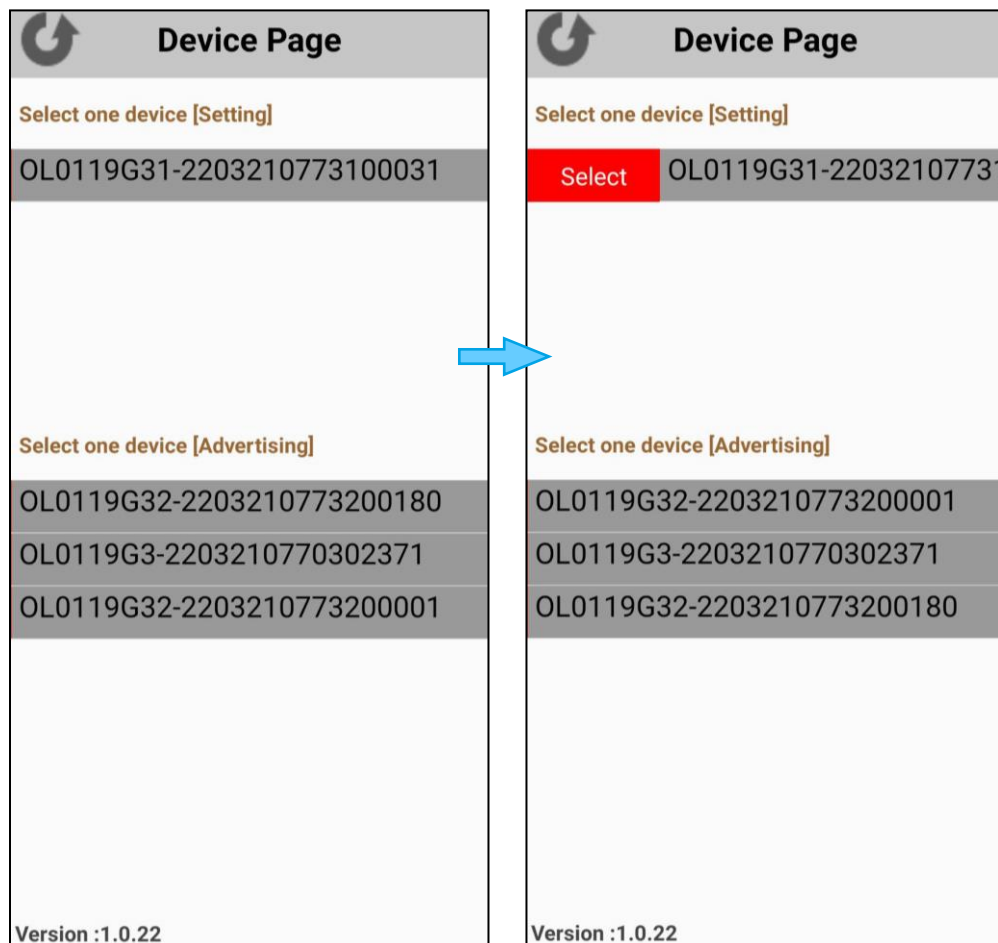



If Bluetooth function is not enabled, a pop-up window will appear.  
Please press the “Allow” option.



Please press the “Allow” option. (Storage permission)  
[For Android 10 and below]

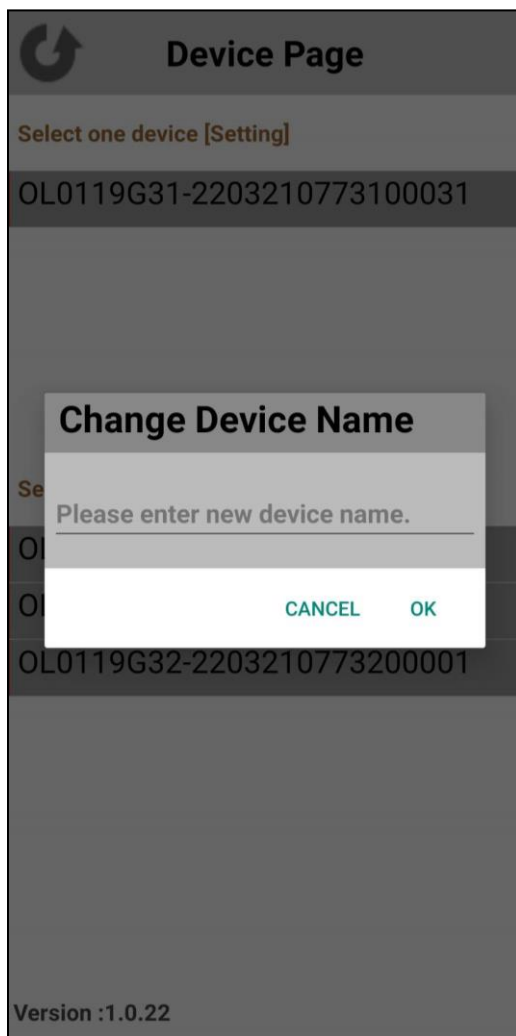
# Connect to OL0119



1. Swipe right on the selected OL0119 device. Then press the “Select” button to complete the selection action.
  2. Select one device[Setting] :  
After pressing the “Select” button, the Change Device Name window will pop up. Then you will be taken to the login page.
  3. Select one device[Advertising] :  
After pressing the “Select” button, the Change Device Name window will pop up. Then you will be taken to the setting page.
- ▲ The advertising state can not set parameters for the device.
  - ▲ User can press  to rescan OL0119 device.



# Change Device Name

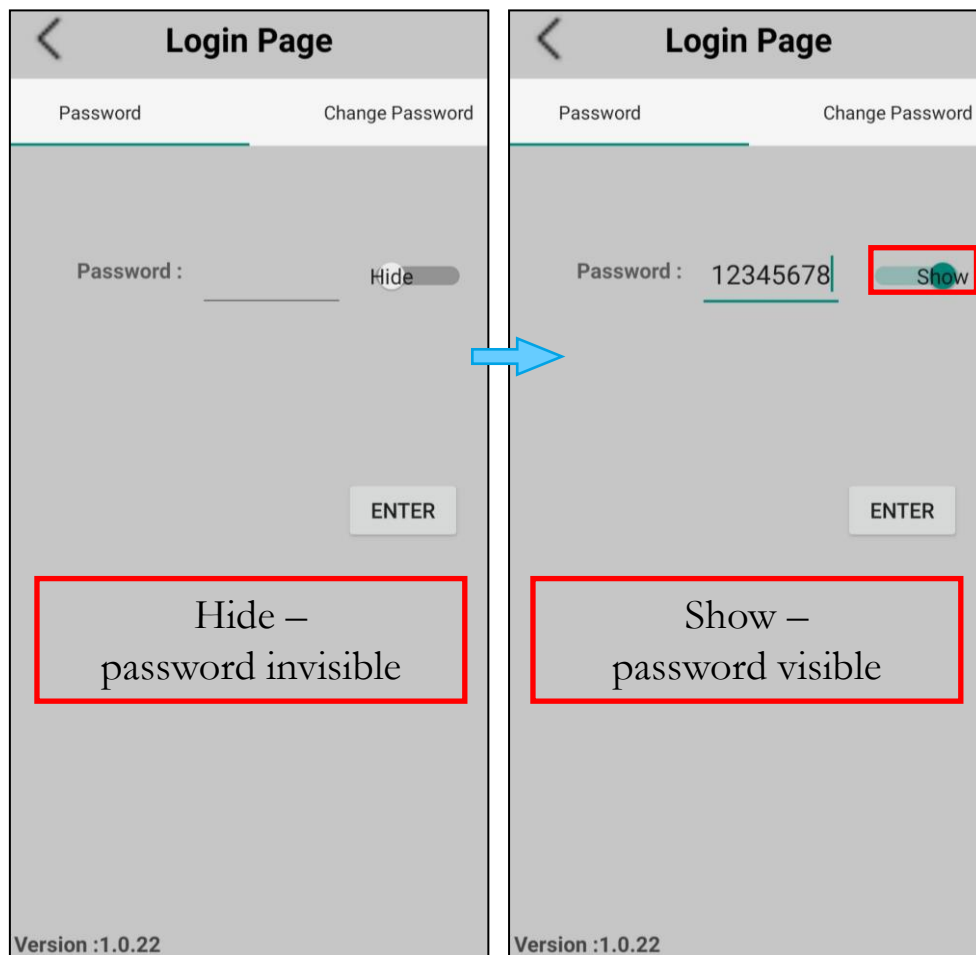


After pressing “Select”, you can do the following :

1. Click the “Cancel” button :
  - If you wish to use current device name
2. Click the “OK” button :
  - If there is no text, the device name will revert to the device serial number.
  - If you enter new device name, the device name will be replaced.



# Login Password



Login Password :

1. User needs an eight-character password to connect to the OL0119.  
(Default Password : 12345678)
2. Press “Enter” to connect OL0119 If the password is correct then you will be taken to the setting page.

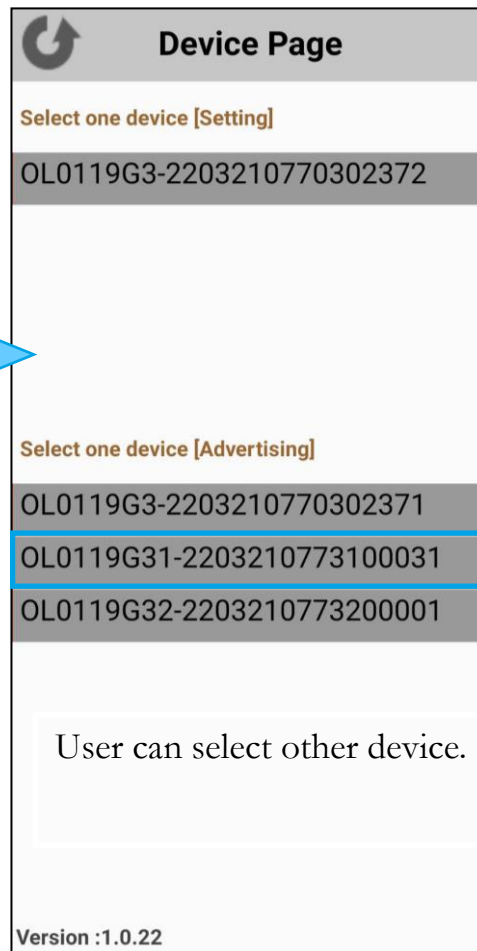
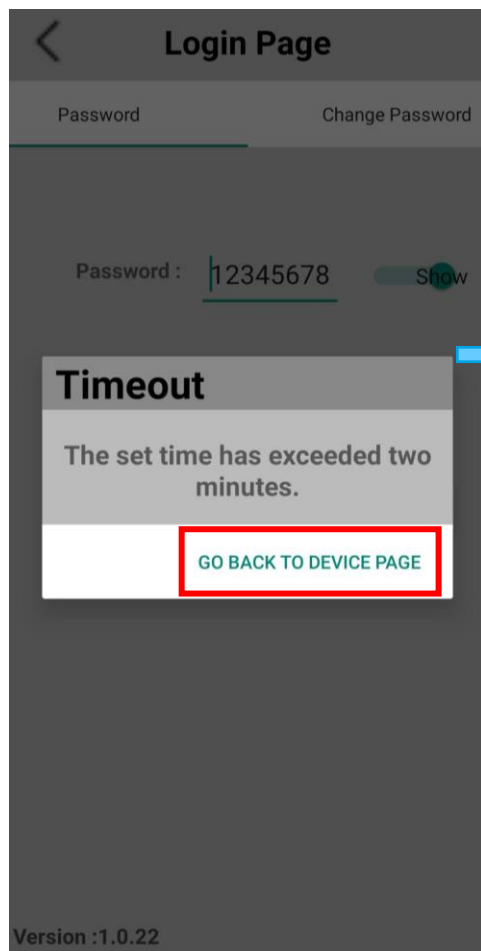
# Change Password

The image displays two sequential screenshots of a mobile application's 'Login Page' during a password change process. Both screens feature a back arrow, a 'Password' tab, and a 'Change Password' tab. The 'Old Password' field is pre-filled with '12345678'. In the first screenshot, the 'New Password' field is empty and the toggle is set to 'Hide'. A blue arrow indicates the transition to the second screenshot, where the 'New Password' field is now active and the toggle is set to 'Show'. An 'ENTER' button is located at the bottom of each screen. The version number 'Version :1.0.22' is visible in the bottom left corner of both screens.


1. Old password :  
User needs enter the original password  
(Default Password : 12345678)
2. New password :  
User needs to enter new eight character password.
3. Press “Enter” to connect OL0119  
If the password is correct then user will be taken to the setting page.



# Set Timeout



User has to complete the setting flow within two minutes. If the time is exceeded, a pop-up timeout window will appear.

After Timeout windows appears, if user still wants to set the parameters of the device, please restart the device and press  to rescan OL0119 device.

# Set Parameter

Setting Page

Device Name :

OL0119G31-2203210773100031

Mobile Setting

EWS-Level

Custom

Data Update Time

15 sec

Mobile Alert

Off

CO2 Modified COE

1

Beaufort Wind Scale

0

Device Setting

EWS-Level

Custom

Alert Limit

2000

LED Red Cycle

15 s

ON

Red Limit

2000

LED Orange Cycle

15 s

ON

Orange Limit

1750

LED Orange Cycle

30 s

ON

Green Limit

1500

LED Green Cycle

60 s

ON

Setting Done

Version :1.0.22

- Level 1
- Level 2
- Level 3
- Custom

## Set the EWS-Level on the mobile phone

15 sec  
30 sec  
45 sec  
60 sec

Frequency

**Off**  
**On**

When user choose "On", turn on the volume

The indoor ventilation environment is analyzed by Win-Global, and the CO2 correction coefficient is calculated according to the placement position.

**Level 1**  
**Level 2**  
**Level 3**  
**Custom**

## Set the EWS-Level on the OL0119 device



Swipe to select other items

Setting done ?

NO

YES

Epidemic Warning Standards :

Level 1 :	1500 ~ 2000 ppm
Level 2 :	1200 ~ 1500 ppm
Level 3 :	800 ~ 1000 ppm

Setting Page

Device Name :

OL0119G31-2203210773100031

Mobile Setting

EWS-Level

Custom

Data Update Time

15 sec

Mobile Alert

Off

CO2 Modified COE

1

Beaufort Wind Scale

0

Device Setting

EWS-Level

Custom

Alert Limit

2000

LED Red Cycle

15

s

ON

Red Limit

2000

LED Orange Cycle

15

s

ON

Orange Limit

1750

LED Orange Cycle

30

s

ON

Green Limit

1500

LED Green Cycle

60

s

ON

Setting Done

Version :1.0.22

# Setting Page

Device Name :

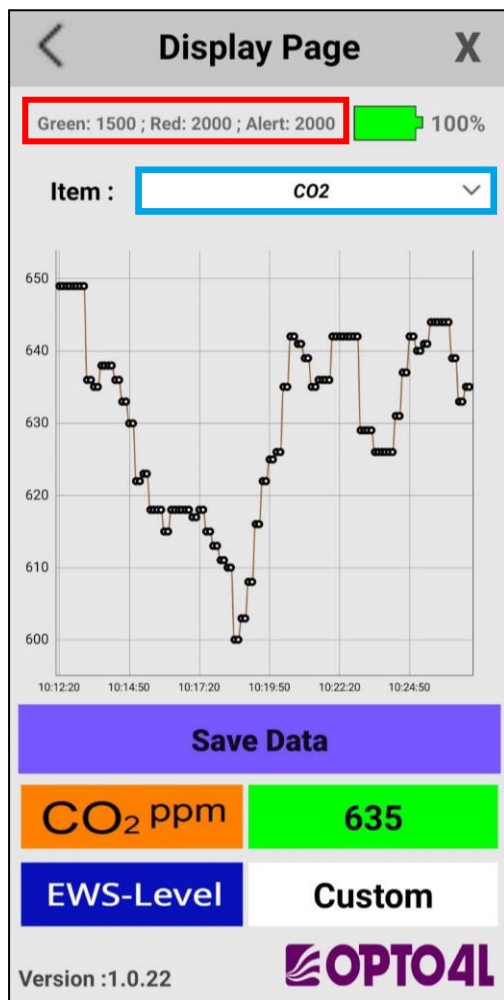
## Mobile Setting

EWS-Level	<input type="text" value="Custom"/>
Data Update Time	<input type="text" value="15 sec"/>
Mobile Alert	<input type="text" value="Off"/>
CO2 Modified COE	<input type="text" value="1"/>
Beaufort Wind Scale	<div><div></div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div></div>
LED Red Cycle	
Red Limit	
LED Orange Cycle	
Orange Limit	<input type="text" value="1750"/>

Beaufort scale	Name	Describe
0	Calm	Smoke rises vertically
1	Light air	Direction shown by smoke drift ; Still wind vanes
2	Light breeze	Leaves rustle ; Wind vanes begin to move
3	Gentle breeze	Light flags extended ; Leaves and small twigs constantly moving
4	Moderate breeze	Light flags constantly waving ; Dust, leaves, and loose paper lifted ; Small tree branches move
5	Fresh breeze	Light flags constantly waving with sound ; Ripples on inland waters ; Small trees in leaf begin to sway

Alert Limit : 400 ~ 3000 ppm

# Measurement Page - CO<sub>2</sub>



< : Back to setting page

X : Exit application

**Save Data** : Save Data

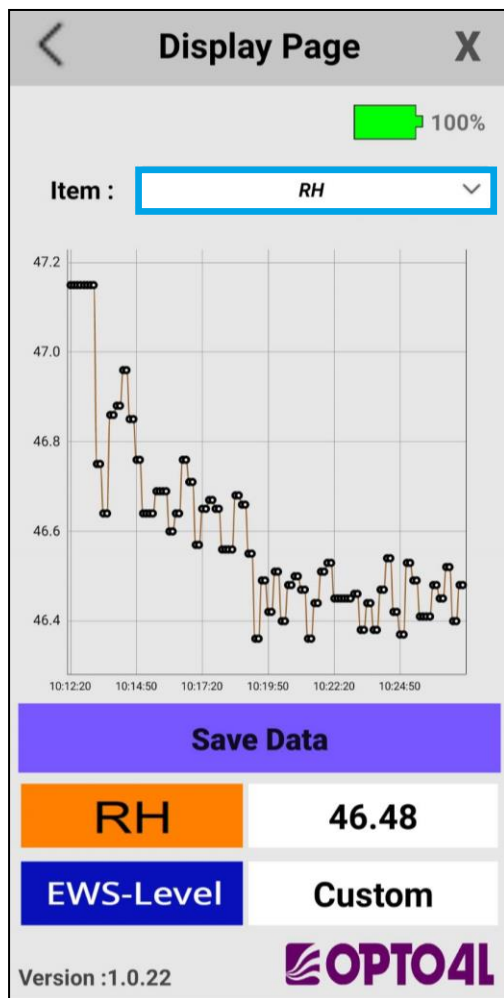
 100% : OL0119's power

Item : Select measurement item

CO2  
RH  
Temperature  
WBGT

Green: 1500 ; Red: 2000 ; Alert: 2000 : The defined warning value for the model set by the user would be shown on the top.

# Measurement Page - RH



< : Back to setting page

X : Exit application

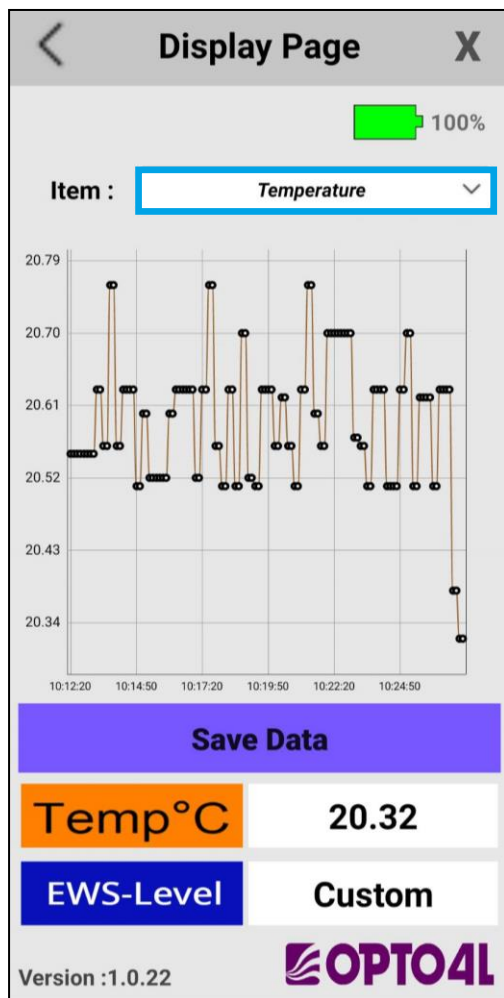
**Save Data** : Save Data

100% : OL0119's power

Item : Select measurement item

CO2
RH
Temperature
WBGT

# Measurement Page - Temperature



< : Back to setting page

X : Exit application

**Save Data** : Save Data

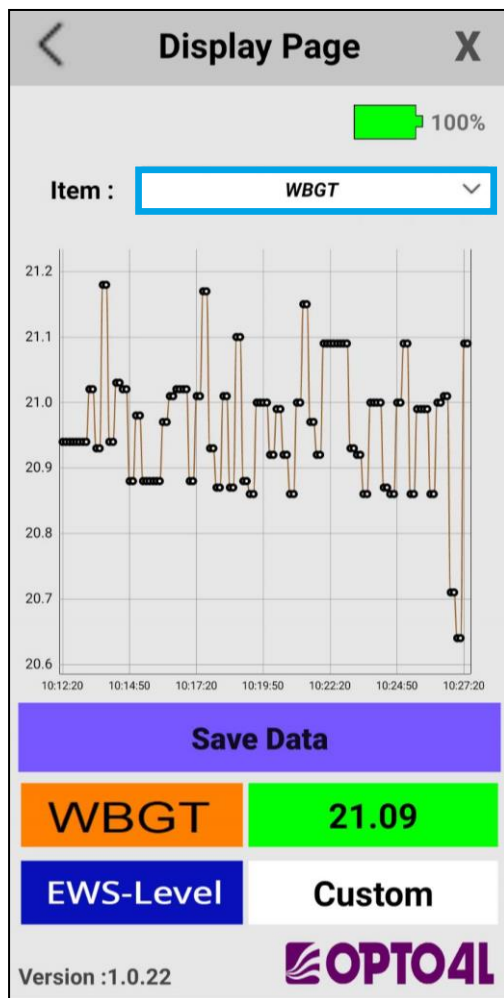
 100% : OL0119's power

Item : Select measurement item

CO2
RH
Temperature
WBGT



# Measurement Page - WBGT



< : Back to setting page

X : Exit application

**Save Data** : Save Data

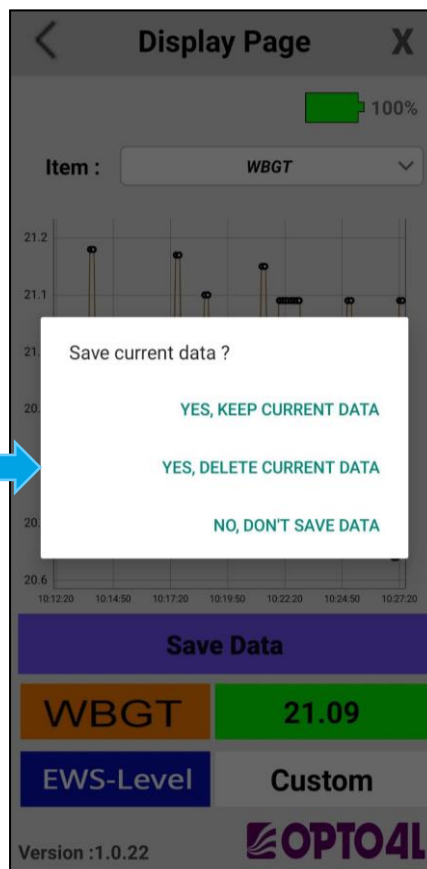
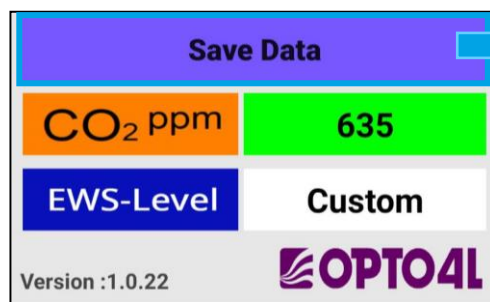
100% : OL0119's power

Item : Select measurement item

CO2  
RH  
Temperature  
**WBGT**

Please refer to WBGT classification and color-coding


# Save Data



1. Yes, keep current data  
Save the current measurement data and keep the data
2. Yes, delete current data  
Save the current measurement data and delete the data
3. No, don't save data  
No save action.

Storage Location : Internal Storage>Downloads> CO2 Ampel\_Date.csv


# Device Parameters Modification


- When OL0119 is under BLE broadcasting mode, a power reset is required if any user would like to modify the parameters within the device.
- When switch device, click  on the Login or setting page, then one could scan OL0119 devices.

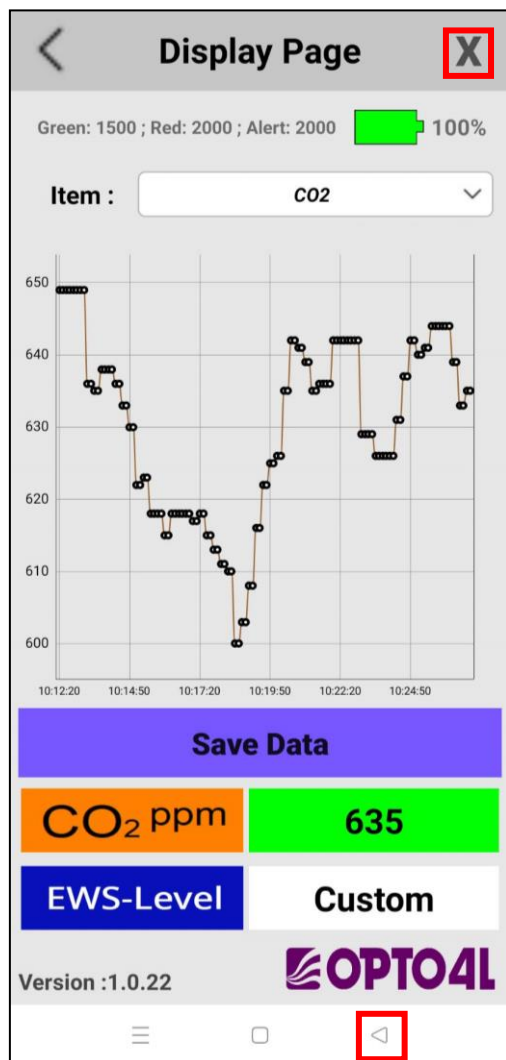


# Exit App

There are two way to exit the app :

 Click this icon and the exit window will pop up.  
Pressing the “Yes” button will exit the application.

 Click the back button and the exit window will pop up.  
Pressing the “Yes” button will exit the application.

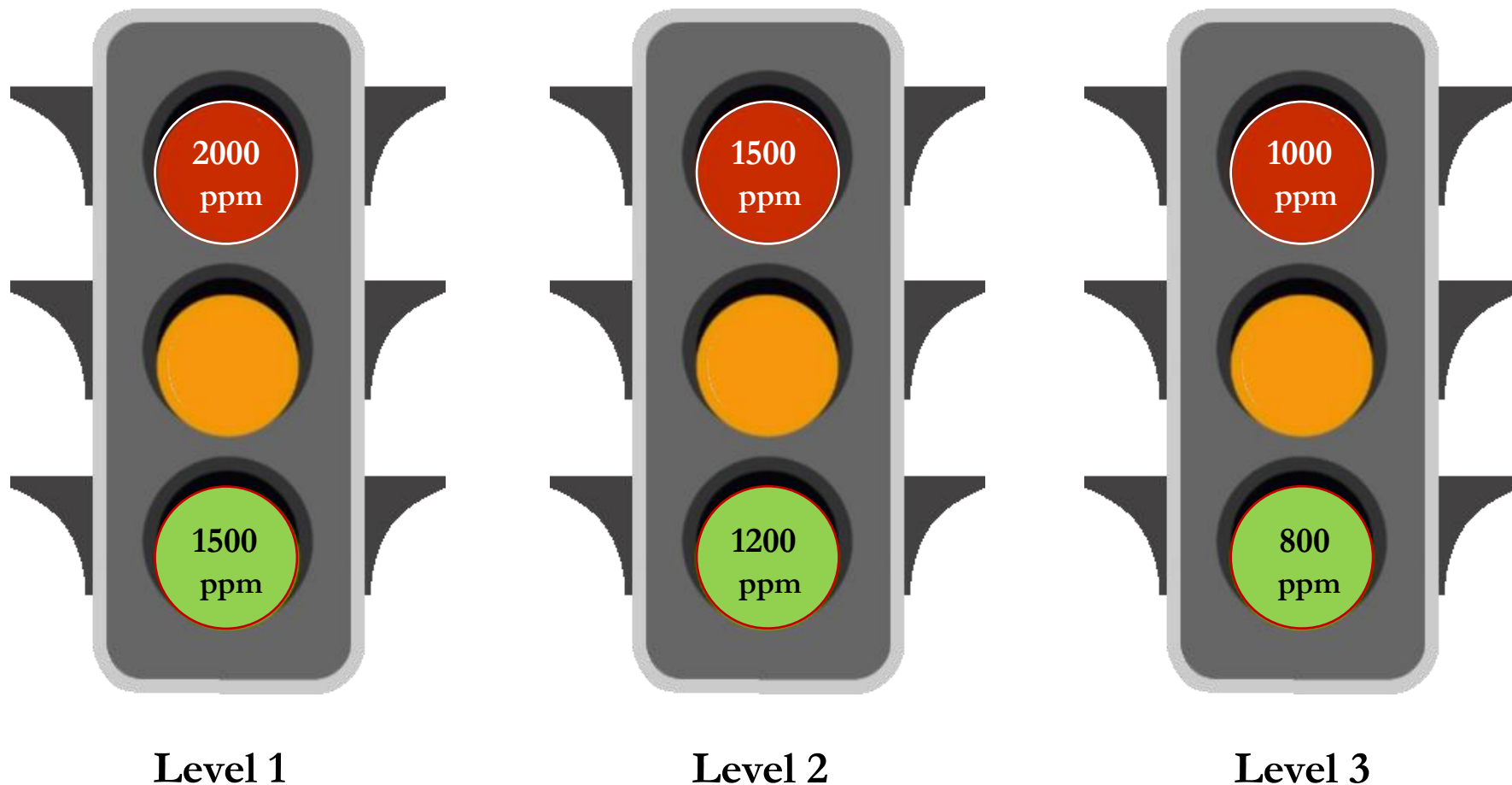


Quit app ?

NO YES

# Epidemic Warning Standards

## EWS-Level CO<sub>2</sub> limit





# WBGT

## classification and color-coding

WBGT	Level	Impact
$> 40\text{ }^{\circ}\text{C}$	Danger	May cause muscle cramps, heat exhaustion ; Prolonged exposure to the sun or intense activity can lead to heat stroke.
$32\sim 40\text{ }^{\circ}\text{C}$	Caution	Prolonged exposure to the sun or intense activity can lead to heat stroke.
$12\sim 32\text{ }^{\circ}\text{C}$	Safe	None
$10\sim 12\text{ }^{\circ}\text{C}$	Caution	May cause non-freezing cold injury.
$\leq 10\text{ }^{\circ}\text{C}$	Danger	May cause non-freezing cold injury ; May cause frostbite or chilblains.

# Beaufort scale

Beaufort scale	Name	Describe
0	Calm	Smoke rises vertically
1	Light air	Direction shown by smoke drift ; Still wind vanes
2	Light breeze	Leaves rustle ; Wind vanes begin to move
3	Gentle breeze	Light flags extended ; Leaves and small twigs constantly moving
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