

# OL0119-G31

# User Manual

version:1.0.22

From Win-Global Technology

**OPTO4L**

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



 **Bluetooth®**

  
**MADE IN GERMANY**

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# OL0119 device introduction

- Please turn on the power to charge, OL0119 will be shown with a green light.  
Device off / Device on /  Device on and Mute
- 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.



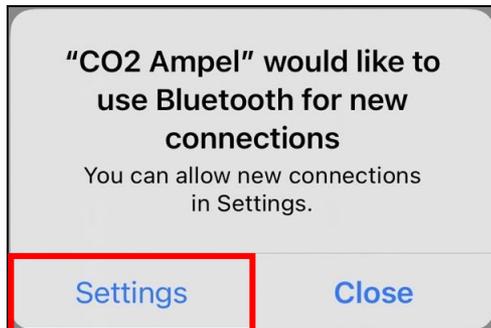
Continuous green light shows when charging.

# Require Bluetooth Permission



Please press the “OK” option.

(Bluetooth scan permission, only ask when opening the program for the first time)

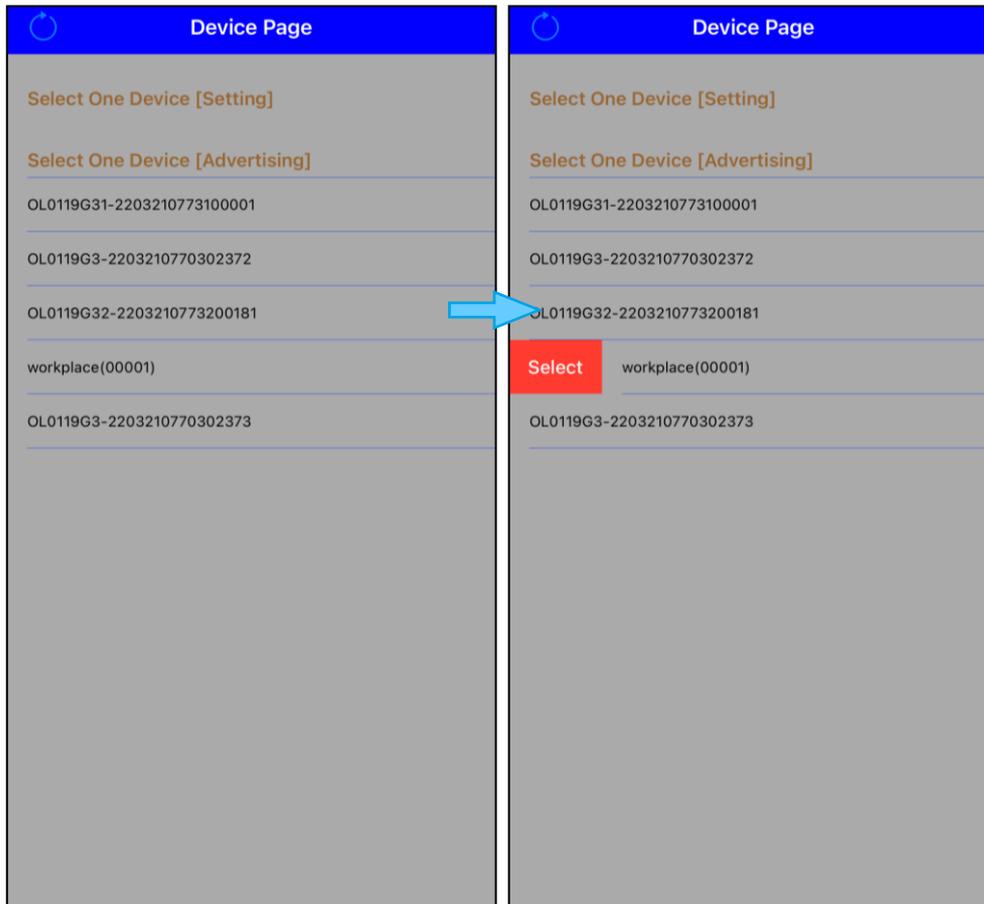


If Bluetooth function is not enabled, a pop-up window will appear. Please press the “ Settings” button, another pop-up window shows the [Bluetooth control page](#).(Pic. 3)



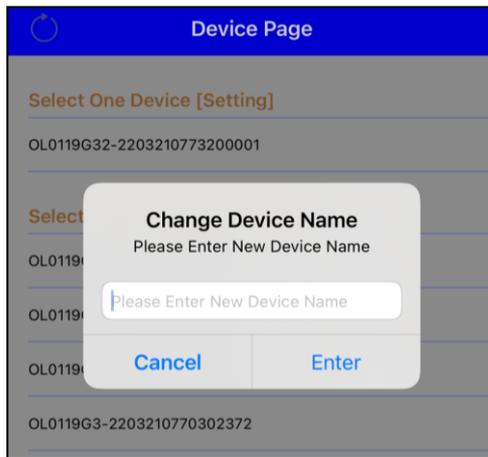
Please press "Allow New Connections"

# 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)
- ▲ The advertising state can not set parameters for the device.
  - ▲ User can press  to rescan OL0119 device.

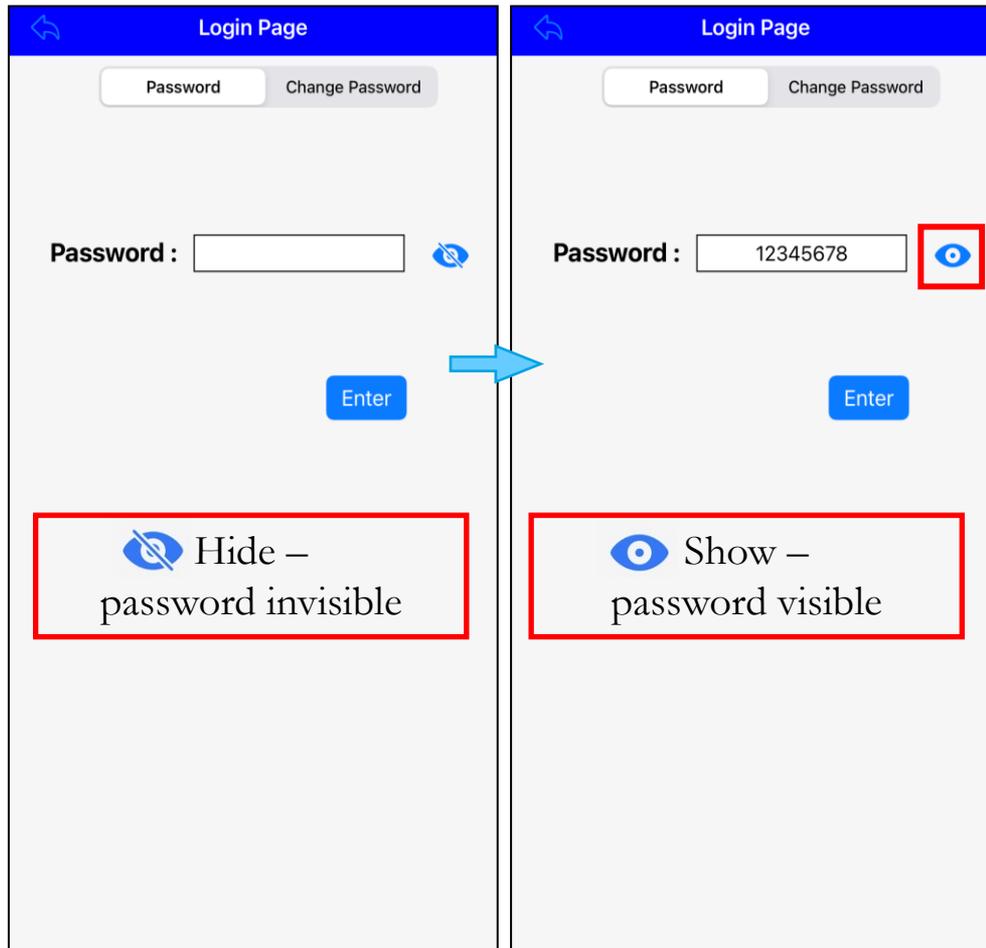
# Change Device Name



After pressing "Select", you can do the following:

1. Click the "Cancel" button :
  - Use current device name
2. Click the "Enter" button :
  - If there is no text, the device name will revert to the device serial number.
  - If there are words, the device name will be replaced.

# Login Password



Login Password :

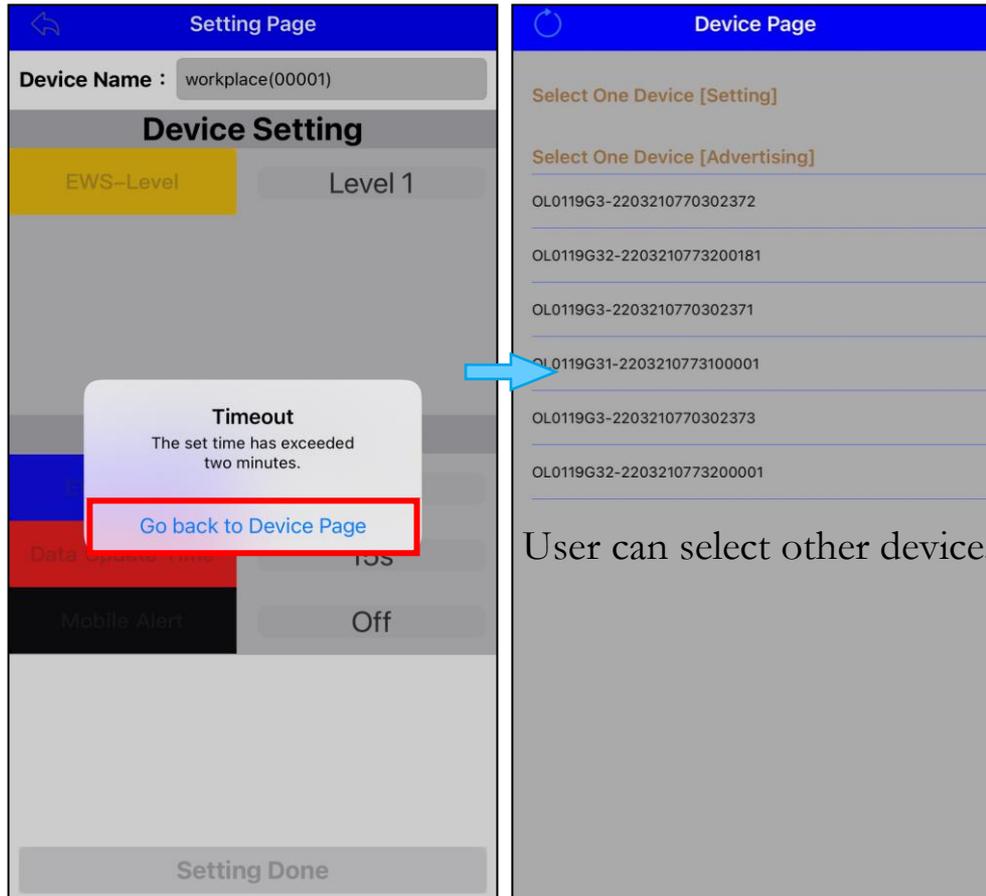
1. User needs an eight-character password to connect to the OL0119.  
(Default Password : 12345678)
2. Press “Enter” to connect OL0119 If the password is correct then you will be taken to the setting page.

# Change Password

The screenshot shows a mobile application interface titled "Login Page". At the top, there is a blue header with a back arrow and the text "Login Page". Below the header, there are two tabs: "Password" (selected) and "Change Password". The "Change Password" section contains two input fields: "Old PWD:" and "New PWD:". Both fields have a placeholder text "Enter eight characters" and a blue eye icon to the right, indicating a password field. Below the input fields is a blue "Enter" button.

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 turn off the device and click  and start over.

# Set Parameter



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 you 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

# Set Parameter - Custom

Setting Page

Device Name : OL0119G32-2203210773200001

**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

Red Limit: 2000

LED Orange Cycle: 15 s

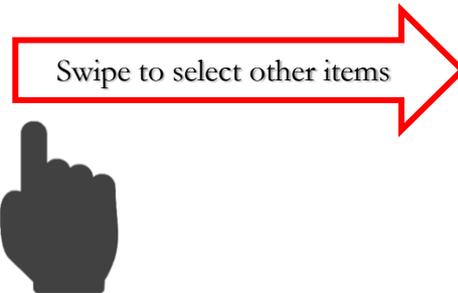
Orange Limit: 1750

LED Orange Cycle: 30 s

Green Limit: 1500

LED Green Cycle: 60 s

Setting Done



Alert Limit: 2000

LED Red Cycle: 15 s

Red Limit: 2000

LED Orange Cycle: 15 s

Orange Limit: 1750

LED Orange Cycle: 30 s

Green Limit: 1500

LED Green Cycle: 60 s

## Setting Rules :

1. Green Limit < Orange Limit ≤ Red Limit
2. 600 s ≥ Cycle Time ≥ 1 s

## Setting Range :

RED Limit : 1000 ~ 3000 ppm  
 Orange Limit : 500 ~ 3000 ppm  
 Green Limit : 400 ~ 1500 ppm  
 Alert Limit : 400 ~ 3000 ppm



: Turn on the LED light

: Turn off the LED light

# Set Parameter - Custom

Alert Limit	2000
LED Red Cycle	15 s <input checked="" type="checkbox"/>
Red Limit	2000
LED Orange Cycle	15 s <input checked="" type="checkbox"/>
Orange Limit	1750
LED Orange Cycle	30 s <input checked="" type="checkbox"/>
Green Limit	1500
LED Green Cycle	60 s <input checked="" type="checkbox"/>

: Turn on the LED light  
 : Turn off the LED light

Setting Rules :

1. Green Limit < Orange Limit ≤ Red Limit
2. 600 s ≥ Cycle Time ≥ 1 s

Setting Range :

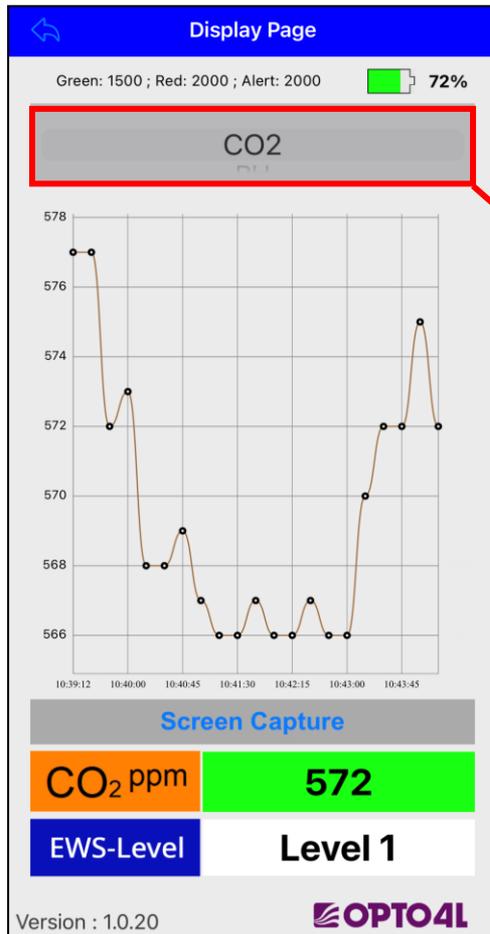
RED Limit : 1000 ~ 3000 ppm  
 Orange Limit : 500 ~ 3000 ppm  
 Green Limit : 400 ~ 1500 ppm  
 Alert Limit : 400 ~ 3000 ppm

風力級數  ▾

There are 5 grades to choose from in the pull-down of the wind power series

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

# Measurement Page - CO2



: Back to setting page

**Screen Capture**

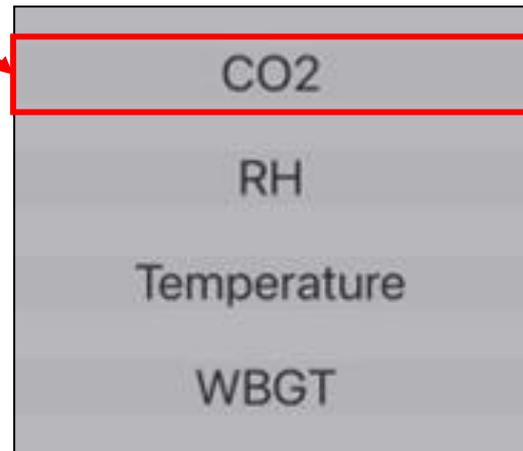
: Save Data



100%

: OL0119's power

Item : Select measurement item

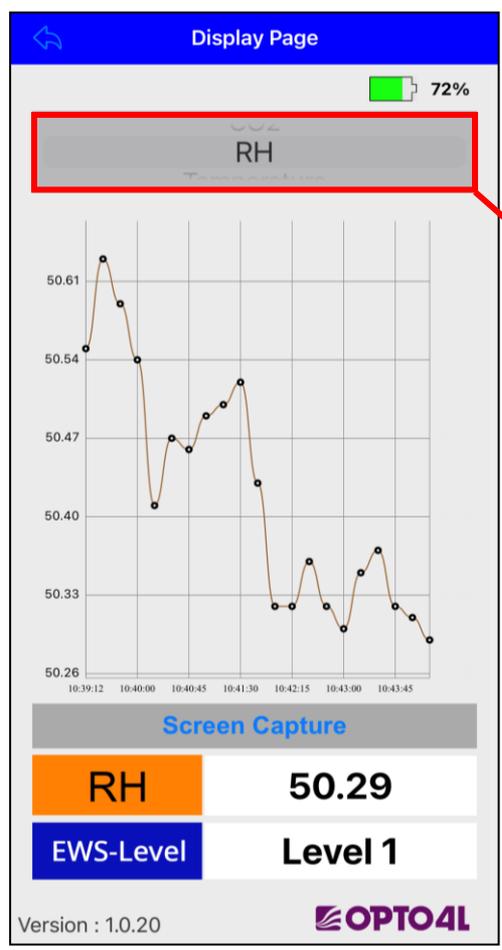


Swipe to select other items

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



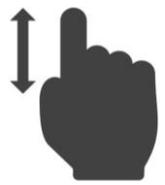
 : Back to setting page

**Screen Capture** : Save Data

 100% : OL0119's power

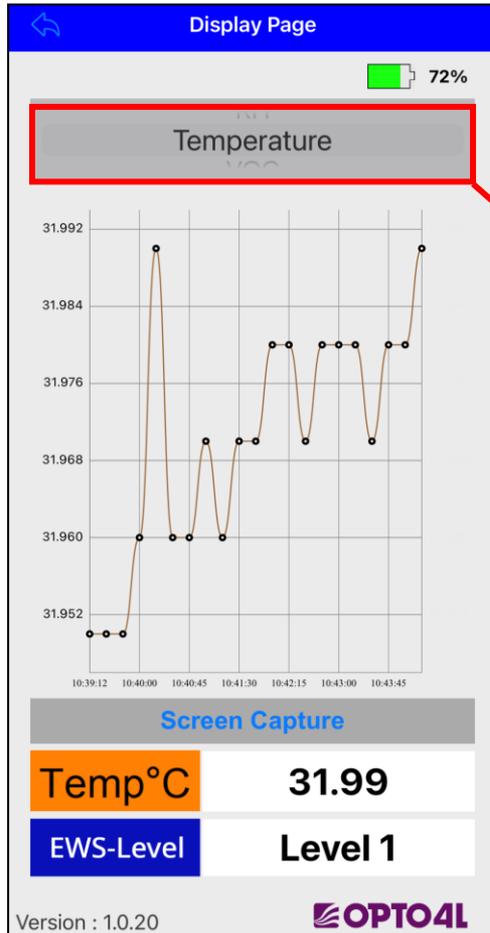
Item : Select measurement item

- CO2
- RH**
- Temperature
- WBGT



Swipe to select other items

# Measurement Page - Temperature



: Back to setting page

**Screen Capture**

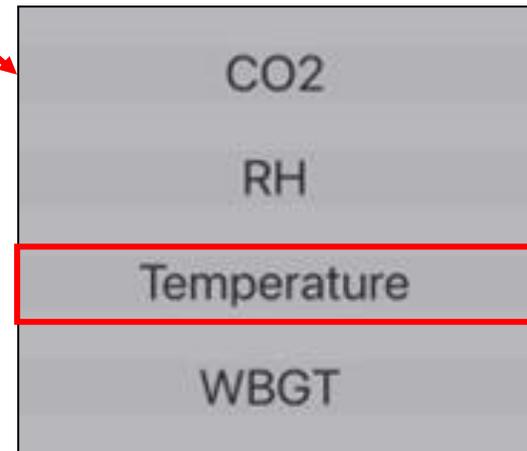
: Save Data



100%

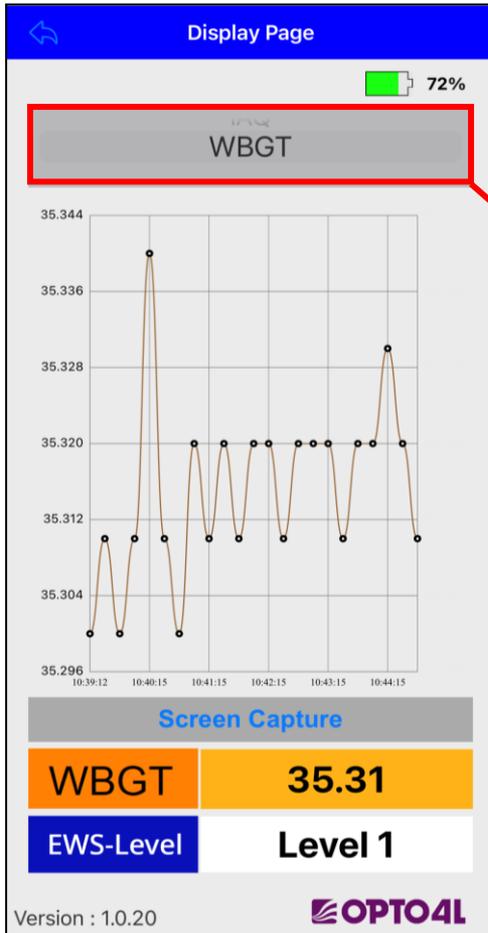
: OL0119's power

Item : Select measurement item



Swipe to select other items

# Measurement Page - WBGT



: Back to setting page

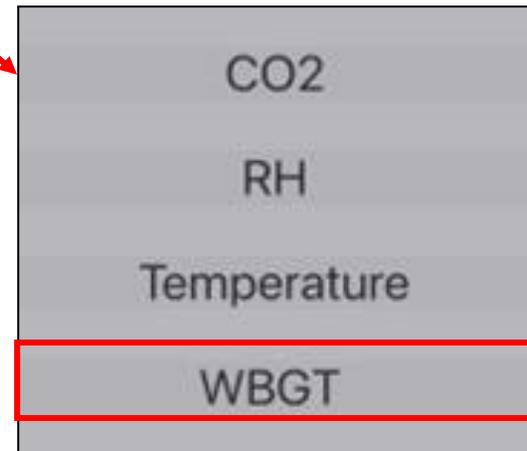
**Screen Capture**

: Save Data



100% : OL0119's power

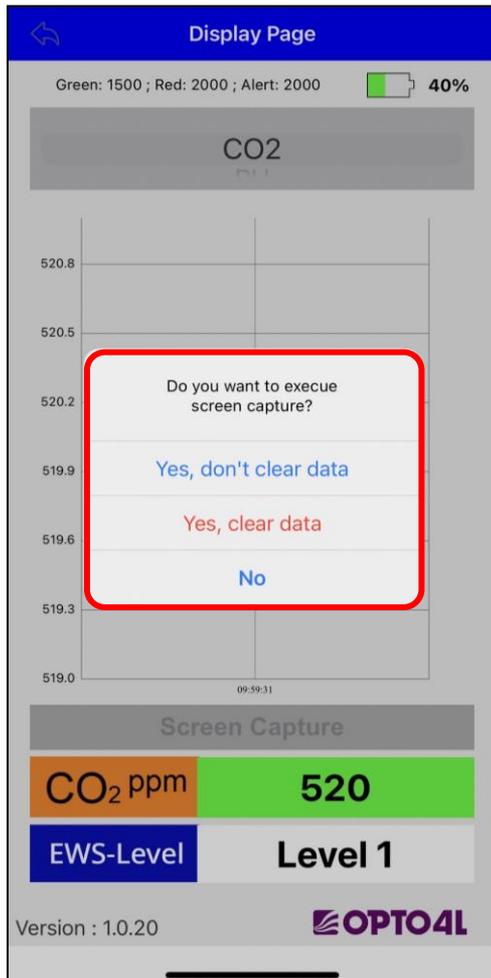
Item : Select measurement item



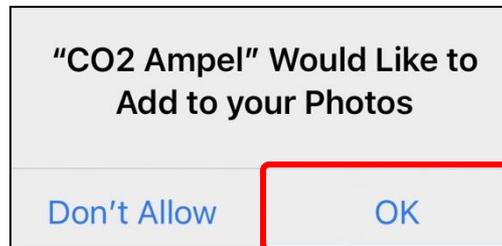
Swipe to select other items

Please refer to WBGT classification and color-coding

# Save Picture and Require Photos Permission



Click “Screen Capture” **Screen Capture** will pop-up this window.



Please press the “OK” button.  
(Photos permission request, only ask when saving the screen capture for the first time)

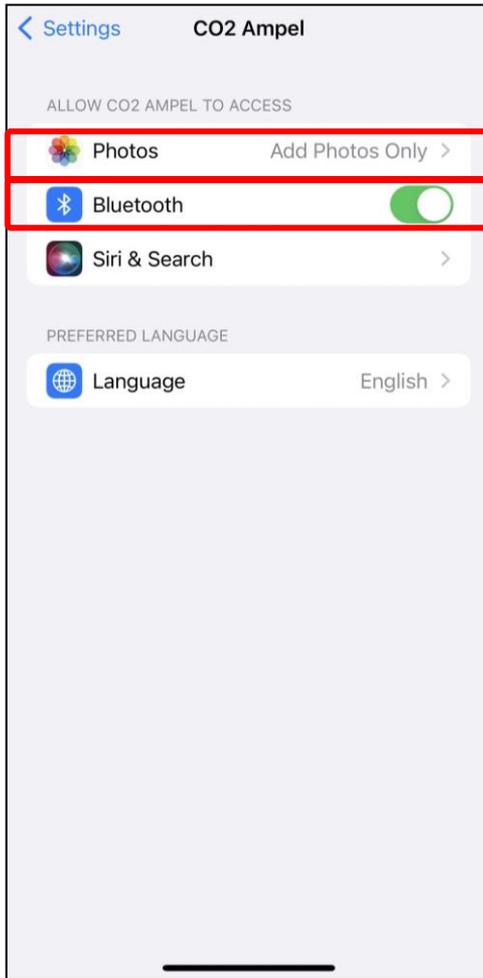
Picture’s Location : Photos -> Screen Shot

# 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.



# Troubleshooting



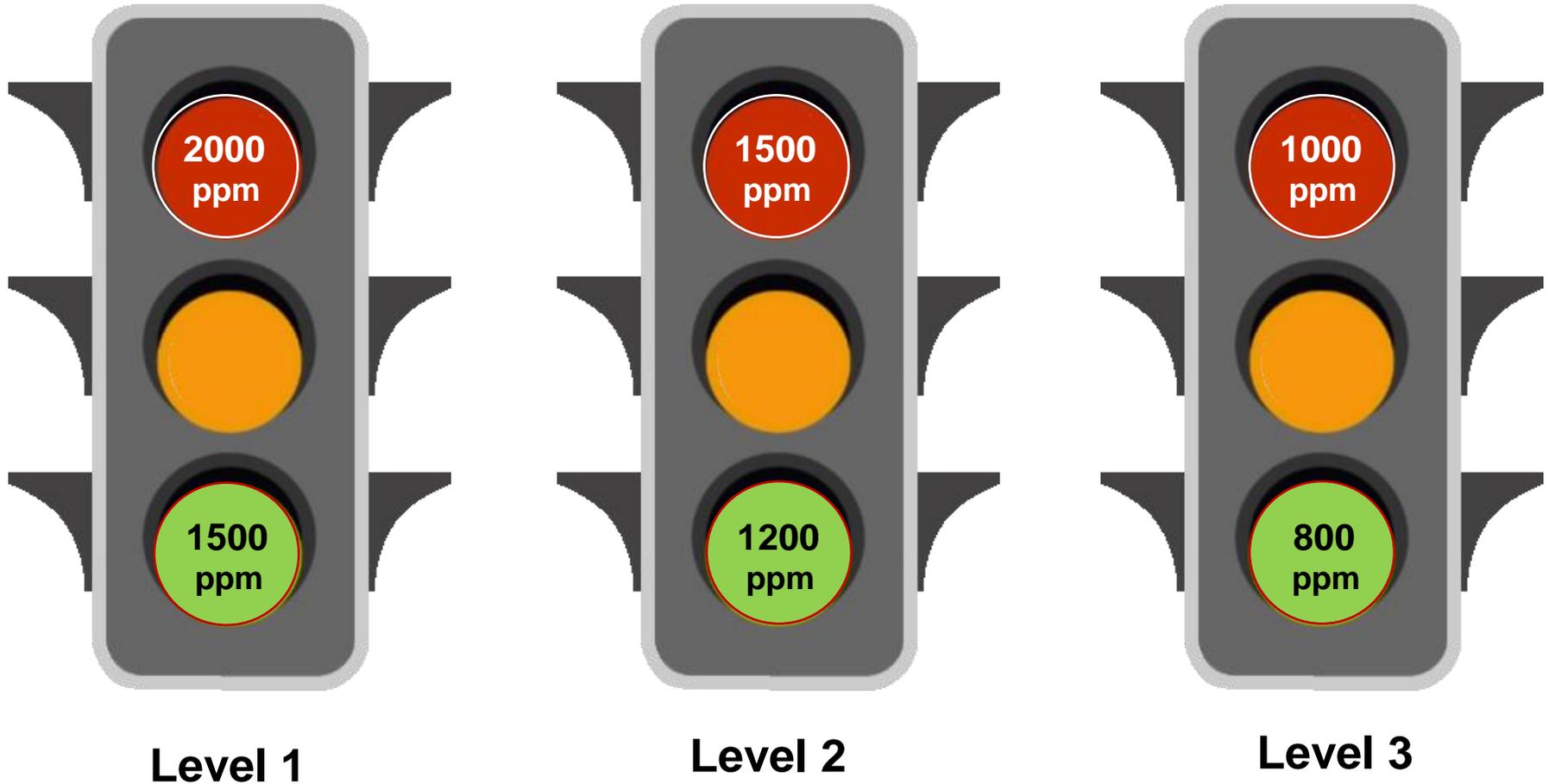
Into Settings -> Enable CO2 Ampel' s Bluetooth and Photos permission.

Photos : The screenshot feature in the CO2 Ampel app will work when permission to photo is granted.

Bluetooth : The Bluetooth's scan function will work when permission to Bluetooth is granted and mobile's Bluetooth is enabled.

# Epidemic Warning Standards

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



# WBGT

## classification and color-coding

WBGT	Level	Impact
> 40 °C	Danger	May cause muscle cramps, heat exhaustion ; Prolonged exposure to the sun or intense activity can lead to heat stroke.
32~40 °C	Caution	Prolonged exposure to the sun or intense activity can lead to heat stroke.
12~32 °C	Safe	None
10~12 °C	Caution	May cause non-freezing cold injury.
≤ 10 °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
4	Moderate breeze	Light flags constantly waving ; Dust, leaves, and loose paper lifted ; Small tree branches move
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