

OL0119-G32

User Manual

version:1.0.22

Win-Global Technology

 OPTO4L

CO₂ Traffic Light



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- Set Bluetooth And Storage Permission
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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 CO₂ concentration is within the range of the green light, the light is displayed every 60s.
The CO₂ concentration is within the range of the yellow light, the light is displayed every 30s.
The CO₂ concentration is within the range of the red light, the light is displayed every 15s.

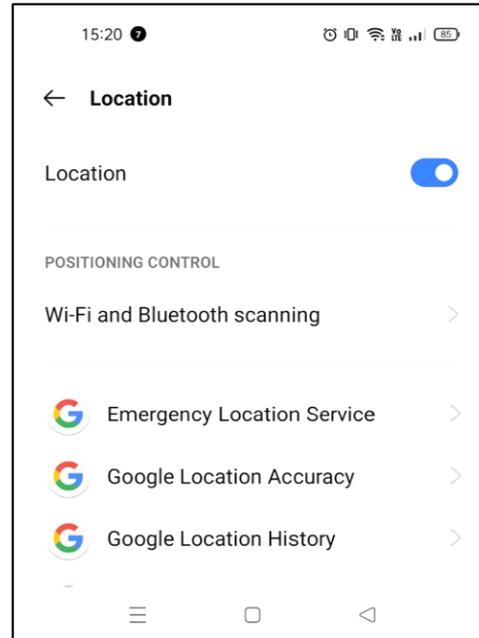
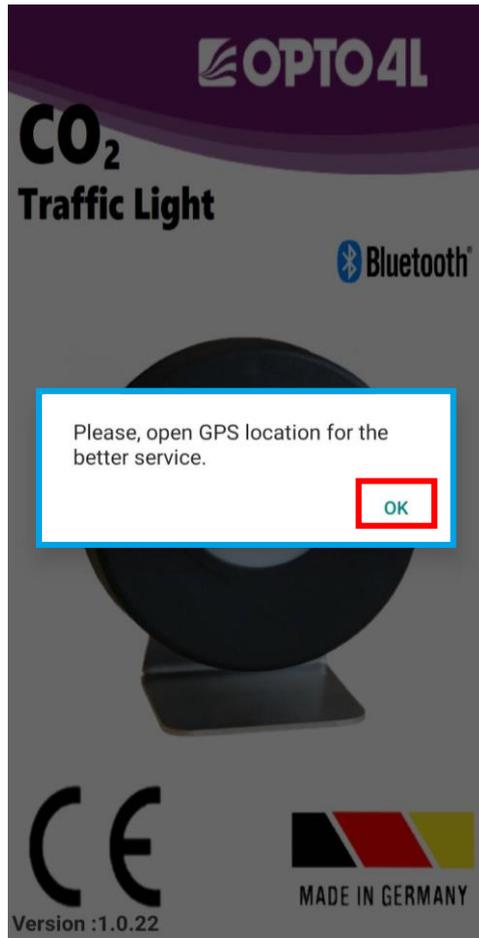


Please choose on or  when charging.



Continuous green light shows when charging.

Set Location Permission (1)

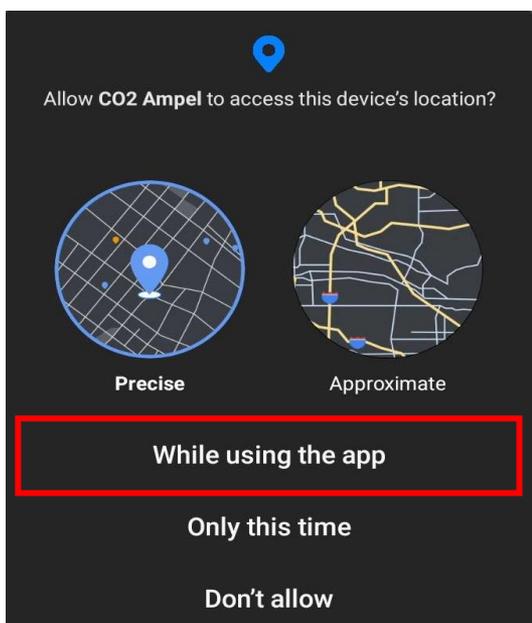


1. If GPS function is not enabled, a pop-up window will appear. Please press the "OK" button.
2. After pressing the "OK" button, you will be taken to this page. Please enable GPS function.

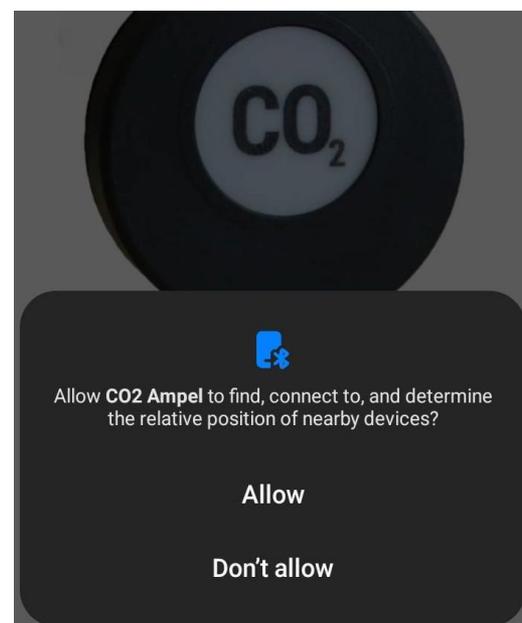
Note: For device with Android 10 or higher version, GPS must be turned on for Bluetooth to work.

Set Location Permission (2)

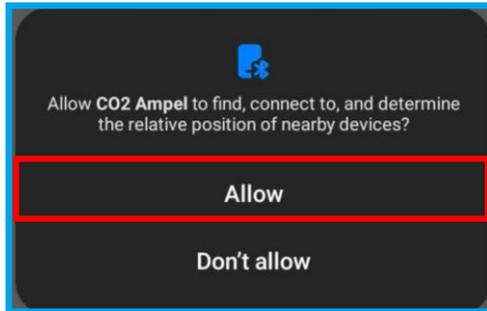
1. When the location access permissions appear, select "Precise" and click "While using the app".



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



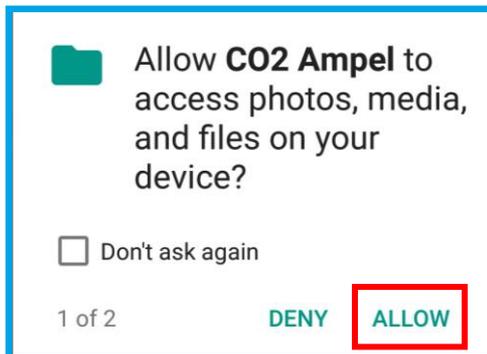
Set Bluetooth And Storage Permission



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

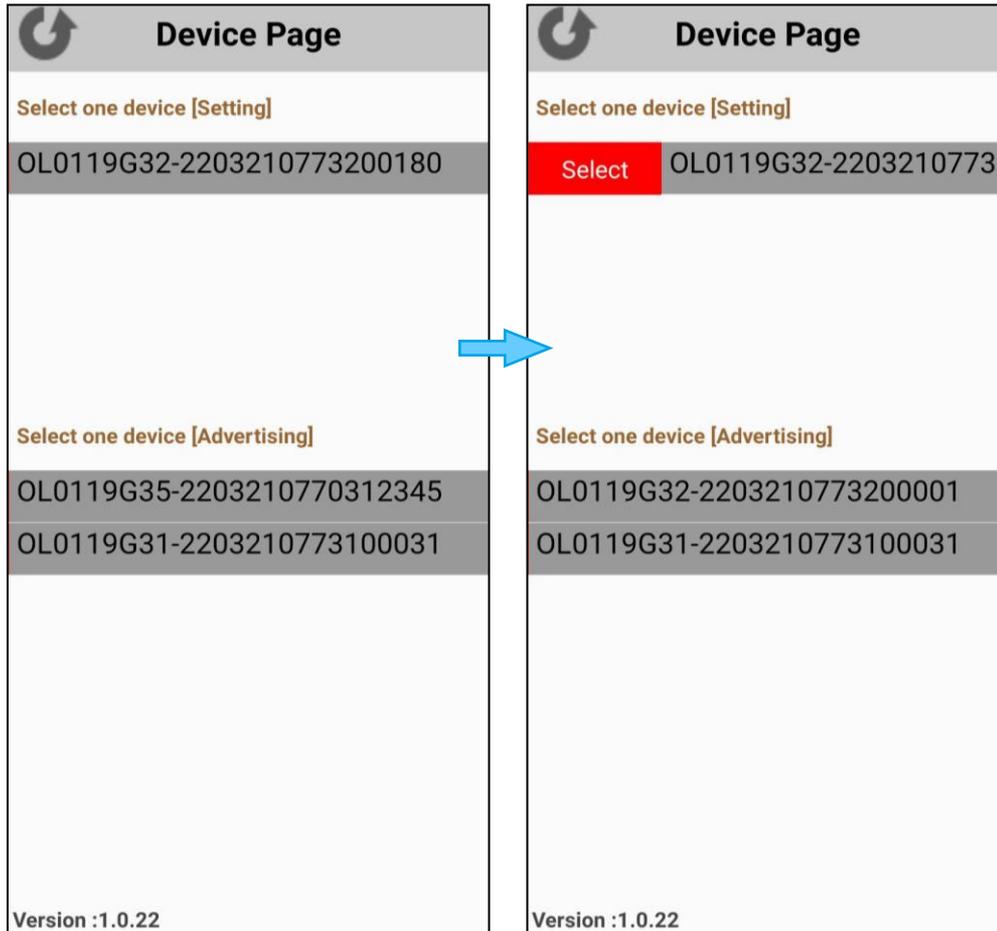


If Bluetooth function is not enabled, a pop-up window will appear.
Please press the “Allow” option.



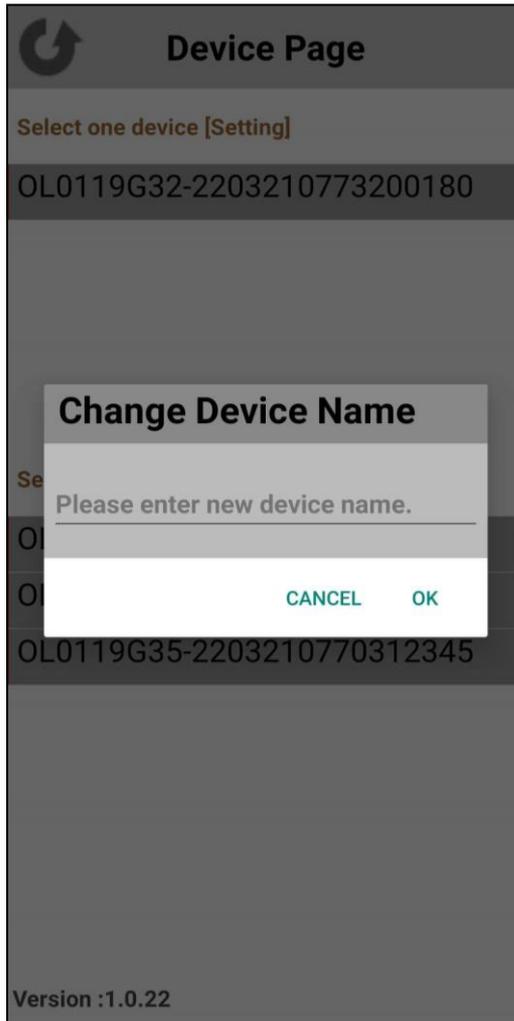
Please press the “Allow” option. (Storage permission)
[For Android 10 and below]

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.

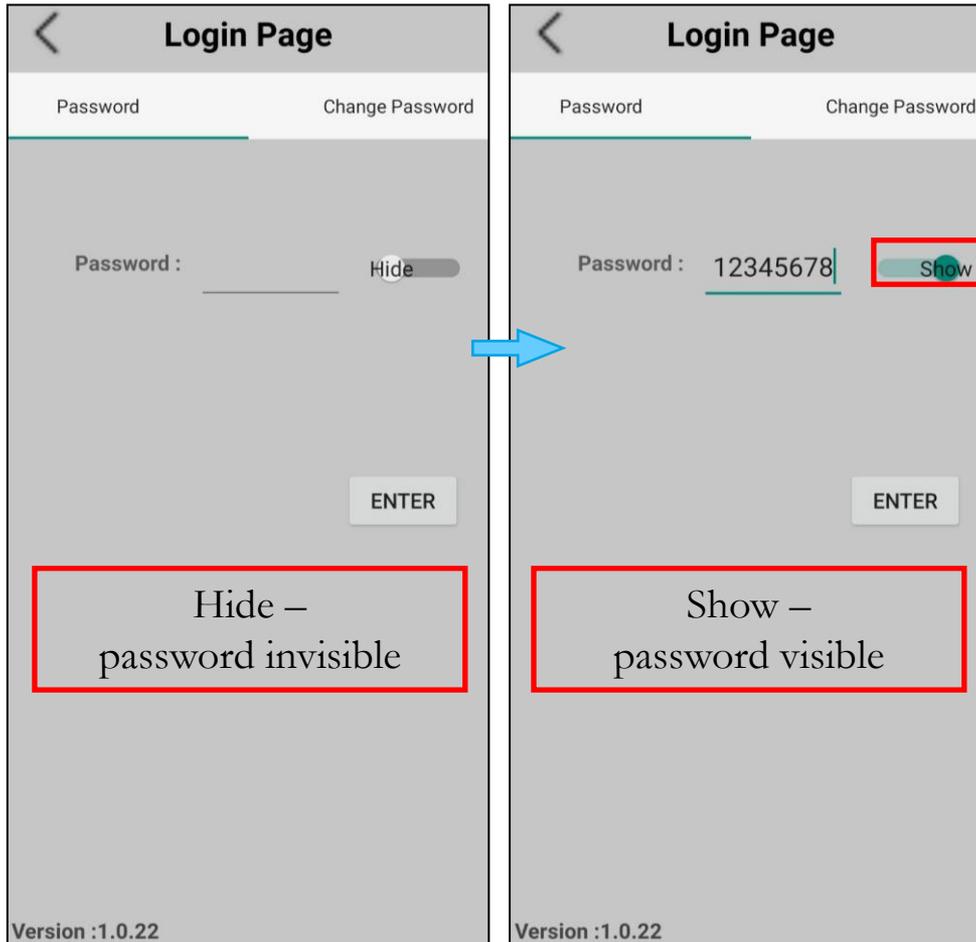
Change Device Name



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.

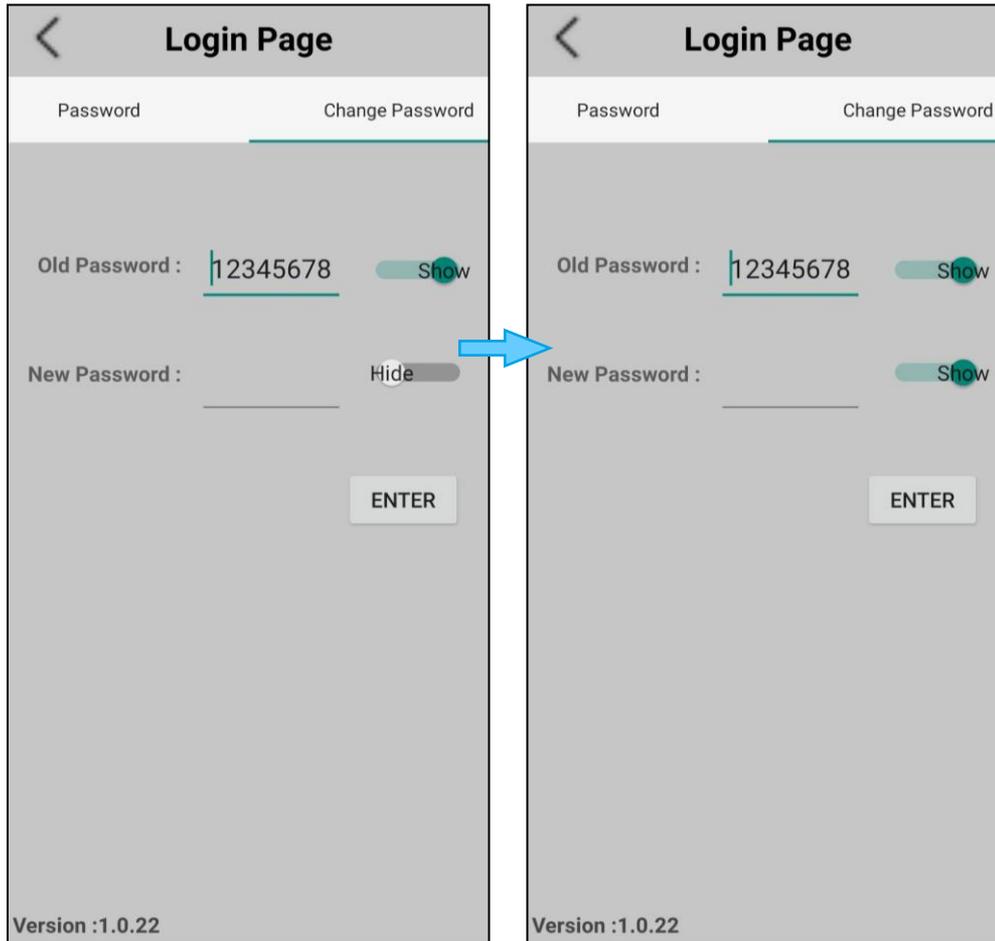
Login Password



Login Password :

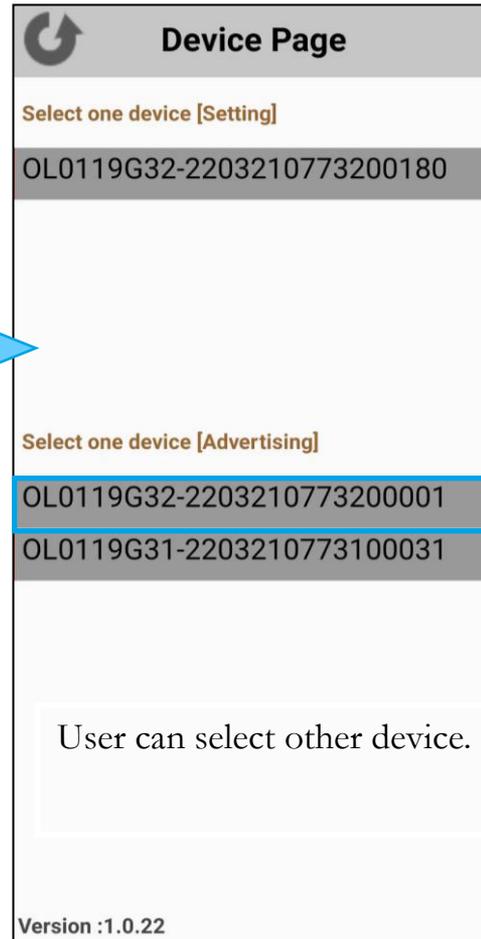
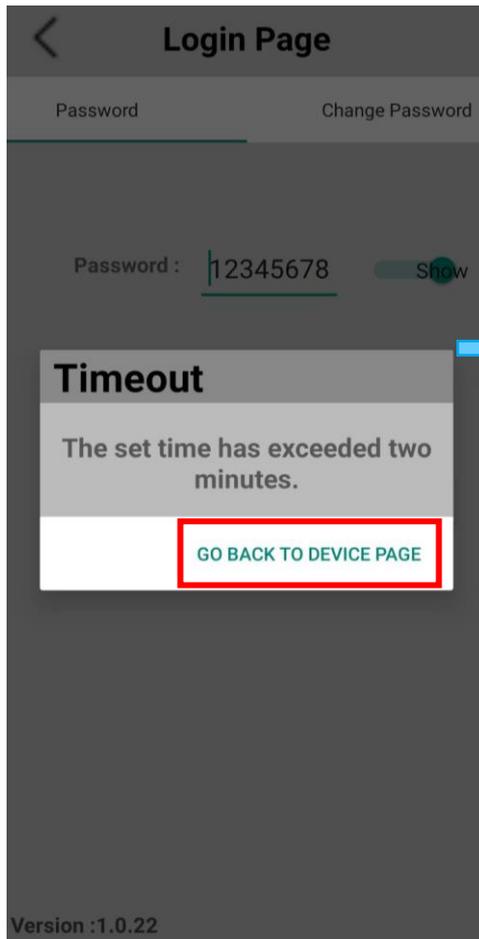
1. User needs an eight-character password to connect to the OL0119.
(Default Password : 12345678)
2. Press "Enter" to connect OL0119 If the password is correct then you will be taken to the setting page.

Change Password



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.

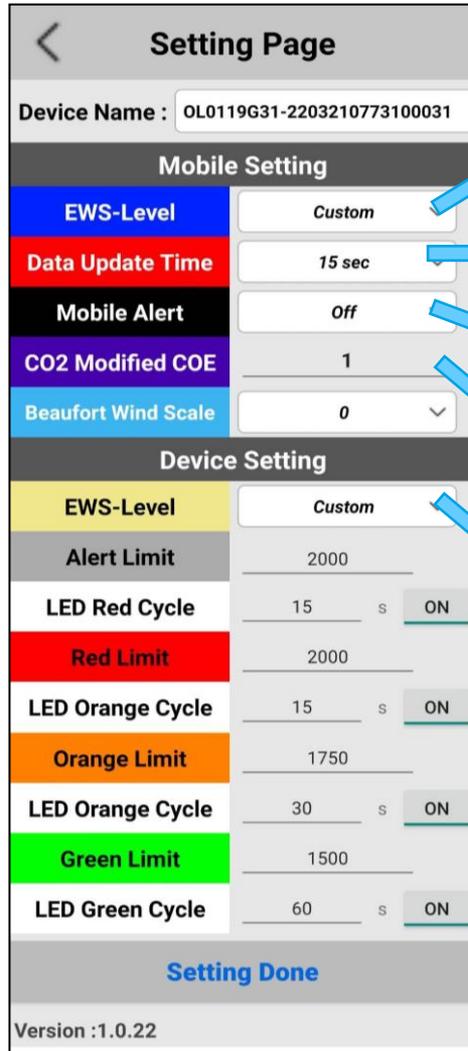
Set Timeout



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



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

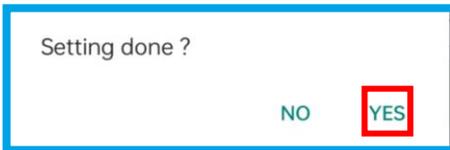
The indoor ventilation environment is analyzed by Win-Global, and the CO2 correction coefficient is calculated according to the placement position.

Level 1
Level 2
Level 3
Custom

Set the EWS-Level on the OL0119 device



Swipe to select other items



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 : 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

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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
- LED Red Cycle: 1
- Red Limit: 2
- LED Orange Cycle: 3
- Orange Limit: 4
- Orange Limit: 5
- Orange Limit: 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

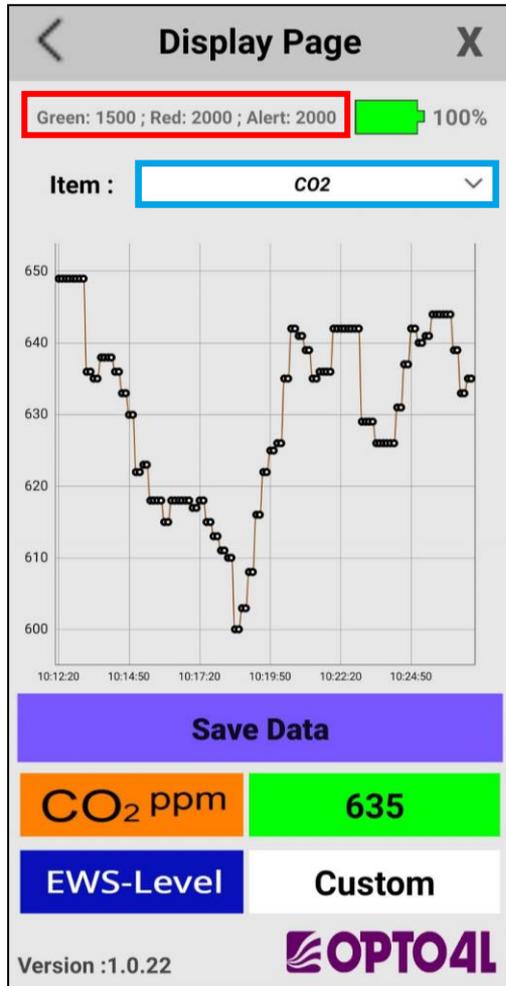
Setting Rules :

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

Device Setting :

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

Measurement Page - CO₂



< : Back to setting page

X : Exit application

Save Data : Save Data

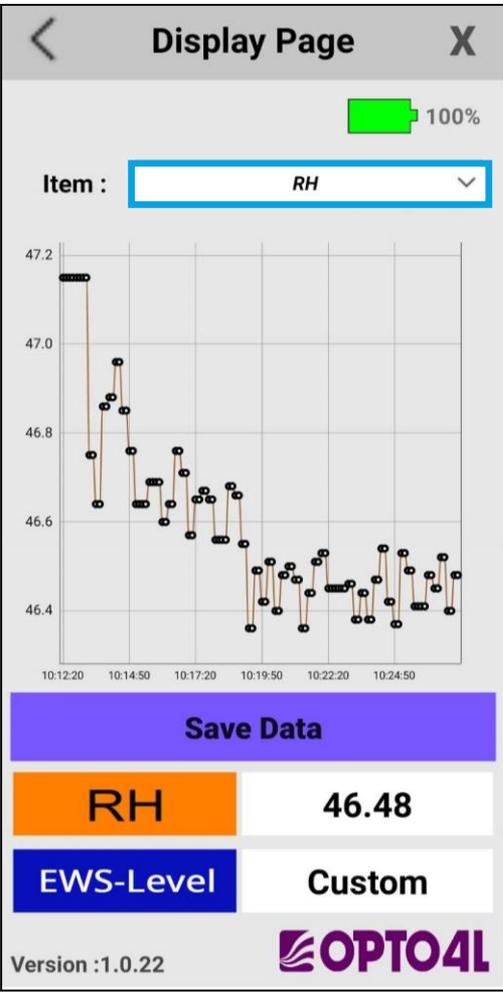
100% : OL0119's power

Item : Select measurement item

- CO2
- RH
- Temperature
- VOC
- IAQ
- WBGT

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

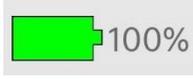
Measurement Page - RH



 : Back to setting page

 : Exit application

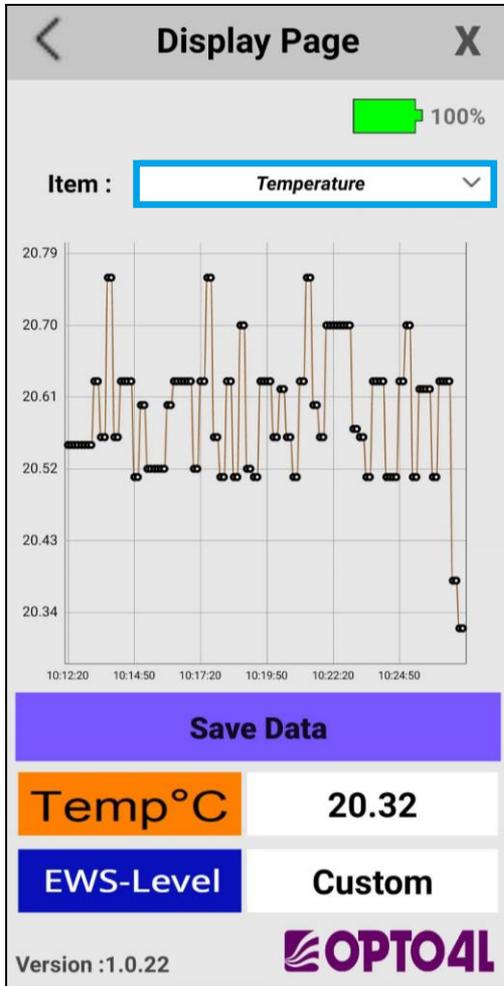
 : Save Data

 : OL0119's power

Item : Select measurement item

- CO2
- RH
- Temperature
- VOC
- IAQ
- WBGT

Measurement Page - Temperature



 : Back to setting page

 : Exit application

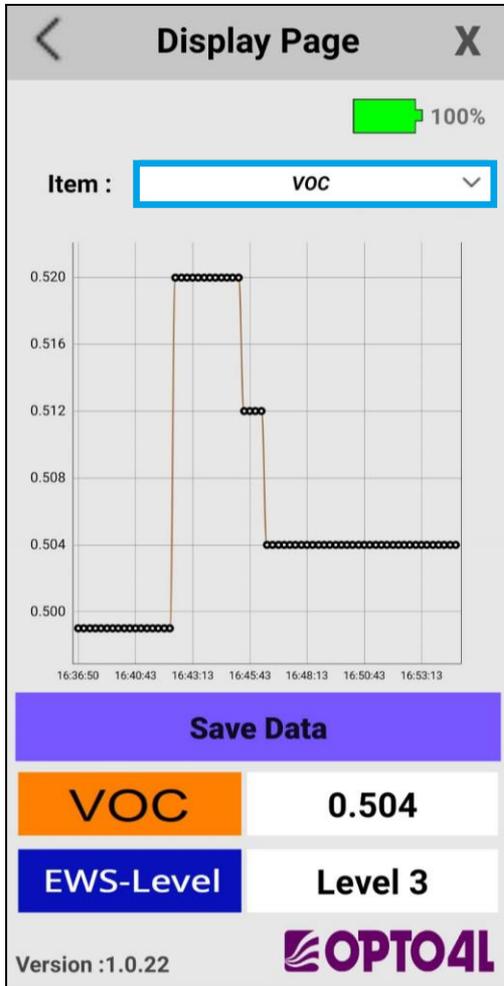
 : Save Data

 100% : OL0119's power

 : Select measurement item

- | |
|-------------|
| CO2 |
| RH |
| Temperature |
| VOC |
| IAQ |
| WBGT |

Measurement Page - VOC



< : Back to setting page

X : Exit application

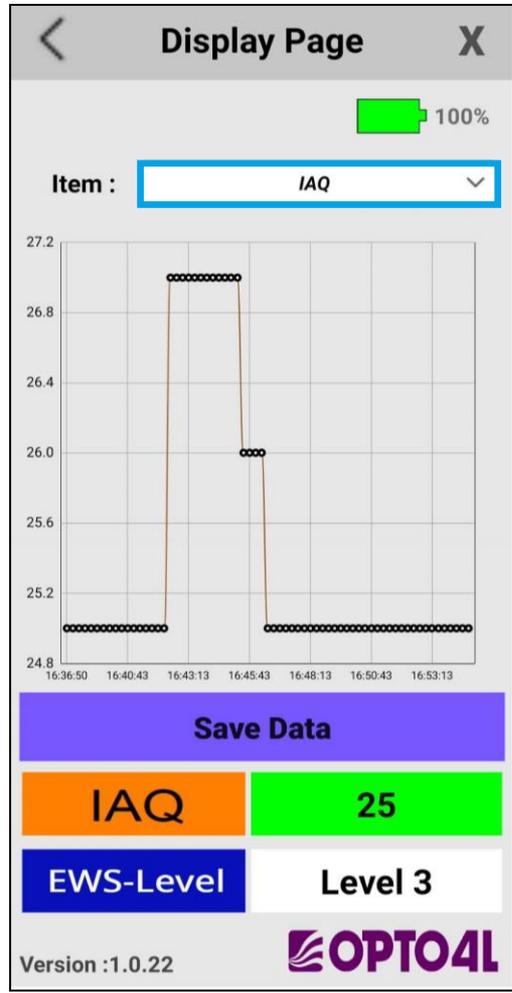
Save Data : Save Data

100% : OL0119's power

Item : Select measurement item

- | |
|-------------|
| CO2 |
| RH |
| Temperature |
| VOC |
| IAQ |
| WBGT |

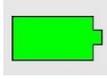
Measurement Page - IAQ



 : Back to setting page

 : Exit application

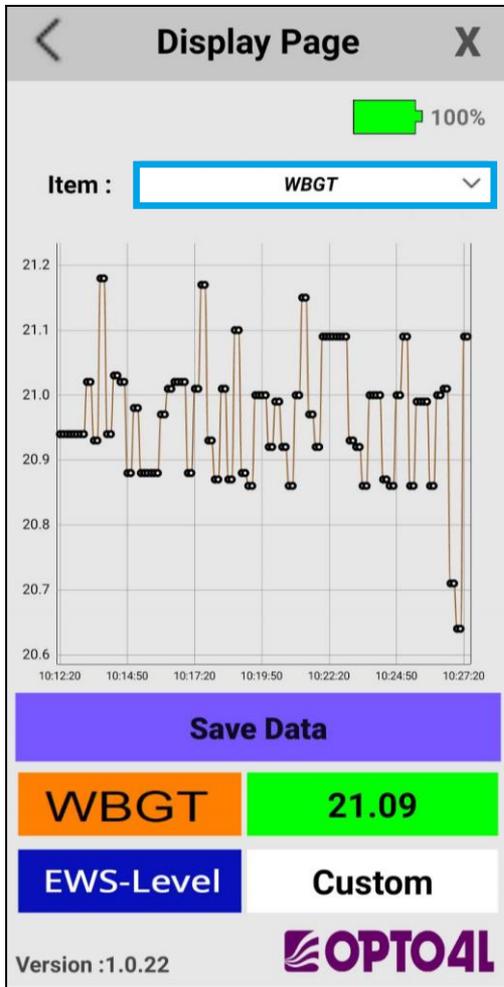
 : Save Data

 100% : OL0119's power

 : Select measurement item

- | |
|-------------|
| CO2 |
| RH |
| Temperature |
| VOC |
| IAQ |
| WBGT |

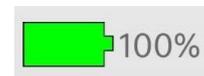
Measurement Page - WBGT



 : Back to setting page

 : Exit application

 : Save Data

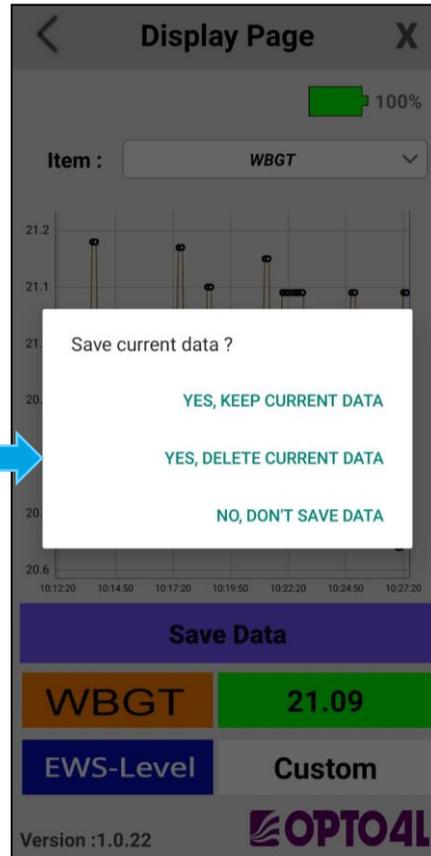
 : OL0119's power

 : Select measurement item

- CO2
- RH
- Temperature
- VOC
- IAQ
- 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.

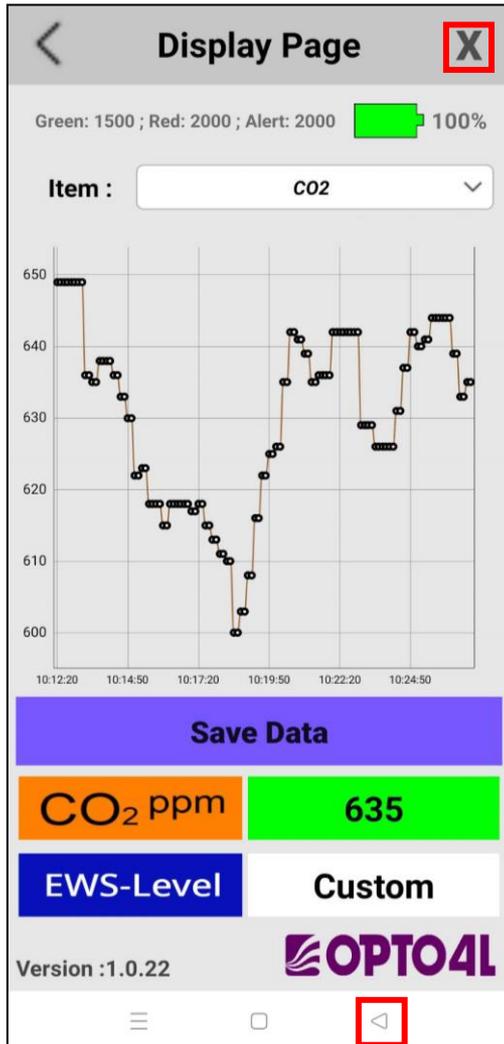


Exit App

There are two way to exit the app :

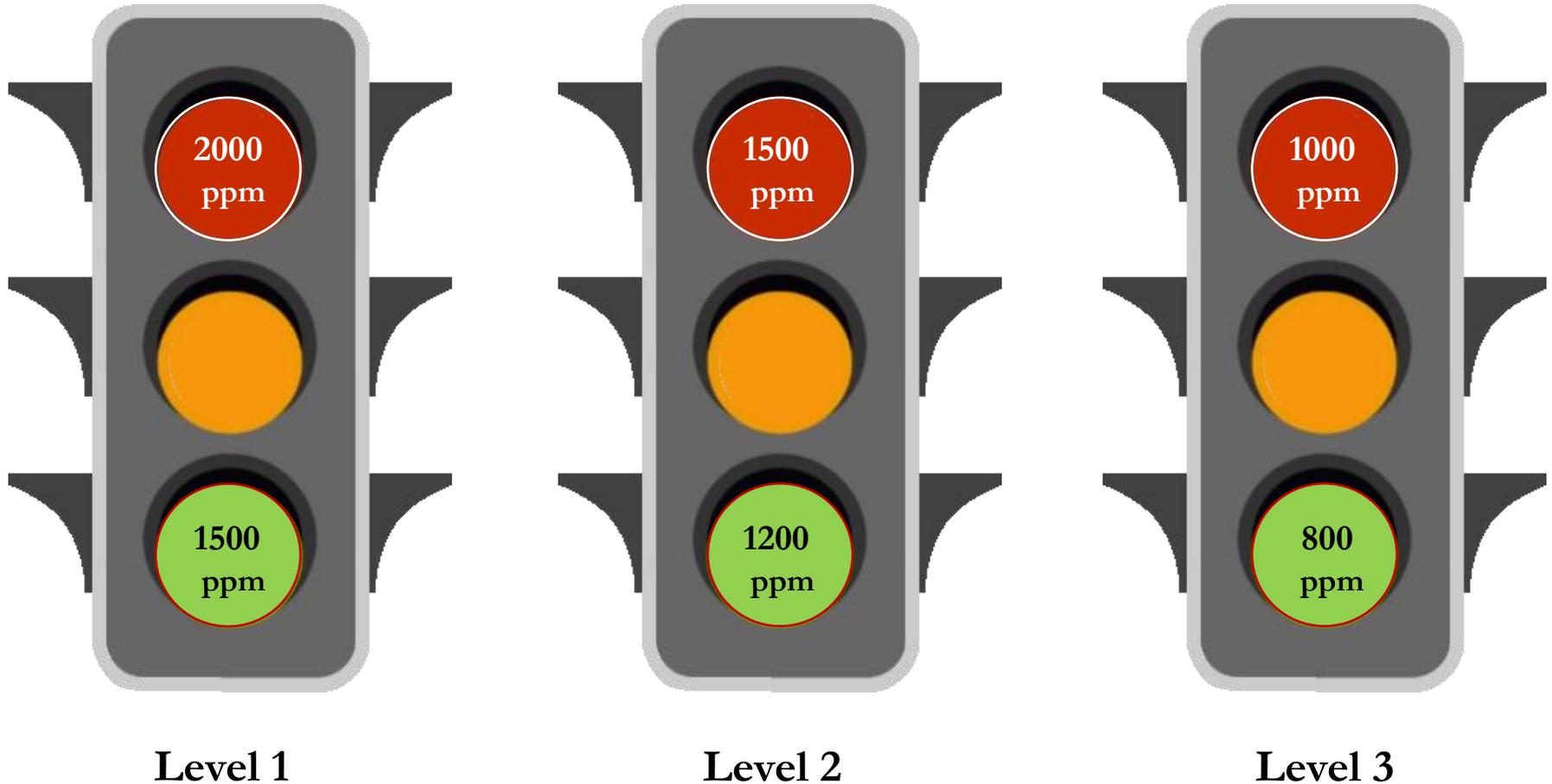
  Click this icon and the exit window will pop up. Pressing the “Yes” button will exit the application.

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



Epidemic Warning Standards

EWS-Level CO₂ limit



Index for Air Quality (IAQ) classification and color-coding

IAQ Index	Air Quality	Impact (long-term exposure)	Suggested action
> 200	Severely polluted	More severe health issue possible if harmful VOC present	Contamination should be identified if level is reached even w/o presence of people; maximize ventilation & reduce attendance
101 – 200	Moderately polluted	More significant irritation possible	Increase ventilation with clean air
0 – 100	Good	Pure air; best for well-being	No measures needed

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
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