Luxafor CO$_2$ Dongle

User Manual

Luxafor CO$_2$ Dongle Package Contents

1x Luxafor CO$_2$ Dongle

Product Specifications

Dimensions:	25 x 63 x 17 mm (0.98 x 1.89 x 0.66")
Weight:	14g (0.49oz)
Measurements:	CO$_2$(carbon dioxide), temperature, relative humidity
Operating environment:	Indoor use (must be connected to USB port and Wi-Fi network)
Light:	1 x RGB LED status notifications.
Consumption:	Rated power up to 110 mA
Connection:	USB powered source (Wi-Fi data connection); Supports only 2.4GHz Wi-Fi and Bluetooth connection. Does not support 5Ghz Wi-Fi connection.
CO$_2$ sensor:	The nondispersive infrared (NDIR) sensor
Notifications:	Via Luxafor CO$_2$ Dongle App: https://www.luxaformanual.com/

Measurement range:	CO$_2$ (ppm)	0 to 5'000
	temperature (°C)	-10 to 60

	temperature (°F)	14 to 140
	relative humidity (% rH)	0 to 100
Measurement accuracy:	CO_2 reading (ppm) Accuracy at 25 C and 1013 mbar (77 F and 14.69 psi)	400...1'000 ppm ± (50 + 2.5 % of the measured value) 1'001...2'000 ppm ± (50 + 3 % of the measured value) 2'001...5'000 ppm ± (40 + 5 % of the measured value)
	temperature reading (°C)	±1.5 (-10 to 60 °C)
	relative humidity (% rH)	±9 (0 to 100% rH)

Sensor:	Nondispersive infrared (NDIR) sensor for measuring CO_2
Calibration interval:	5 years
Data update rate:	3 minutes, 5 minutes or 10 minutes
Power options:	USB Powered
Operating temperature:	-10°C to 60°C (14°F to 140°F)
Operating humidity:	0% to 85% non-condensing
Notification light:	1 x RGB LED
Sound alarm:	Buzzer
Construction:	ABS (Acrylonitrile Butadiene Styrene) plastic

Instructions

1.   Download The App: Download and install the Luxafor CO_2 App on your Android or iPhone here: [Software | Luxafor Manuals](#) or using the QR code provided in this manual.

2.   Plug-In: Plug Luxafor CO_2 Dongle into your PC, car USB or any other power source including USB wall sockets.

3.   Connect Via App: Setup Luxafor CO_2 Dongle via our app. Make sure that during the set-up, your device (phone) must be connected to the same network that the CO2 Dongle will be connected to.

4.   Enjoy: Have more control over the environment in your premises and take care of your well-being.

CO₂ Dongle

Turning the Device On and Off

Turn on or activate the device by plugging the Luxafor CO_2 Dongle to the chosen USB connection/port - PC, car USB or any other power source including USB wall sockets. You need Wi-Fi network connection to use Luxafor CO_2 Dongle that your operating device has. To turn off the device, unplug or disconnect the Luxafor CO_2 Dongle from the power source.

App Functionality

Luxafor CO_2 Dongle Software allows you to monitor CO_2 levels, temperature, and humidity no matter where you are located. Using our app you will get the latest measurements and oversee the data gathered over the past day, week, or even month.

Give each Dongle its own name, so that you can easily distinguish the devices from each other.

Turn the device on	Connect Luxafor CO_2 Dongle to the chosen USB port.

Refresh data	Using the Luxafor CO_2 Dongle App.
Open Luxafor CO_2 Dongle settings	Choose the mode on the Luxafor CO_2 Dongle App by clicking on dongle edit icon (✎).
Switch between F/C temperature readings	Choose the metrics on the Luxafor CO_2 Dongle App.
Turn off the device	Disconnect Luxafor CO_2 Dongle from the chosen USB port.

You can add as many Luxafor CO_2 Dongles as you wish. If you want to share your Dongle readings with others, you can send read-only access to other users.

QR codes to download CO_2 Dongle App via App Store and Play Store:

For Android devices

For iOS devices

First time Luxafor CO₂ Dongle setup

Hold down CO₂ Dongle button until the light stays on. Open Luxafor CO₂ app and navigate to "Device setup" screen
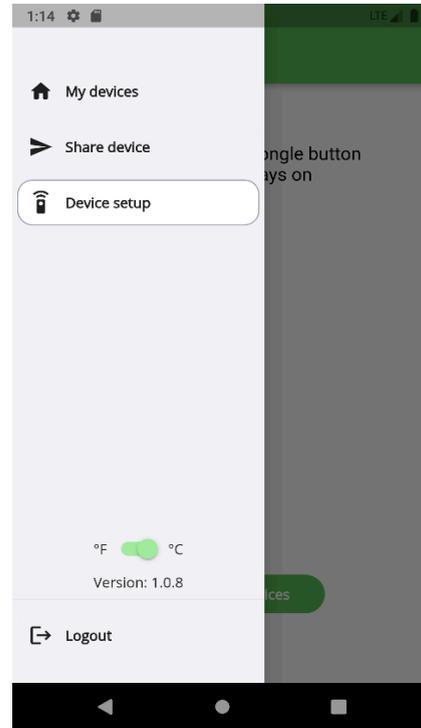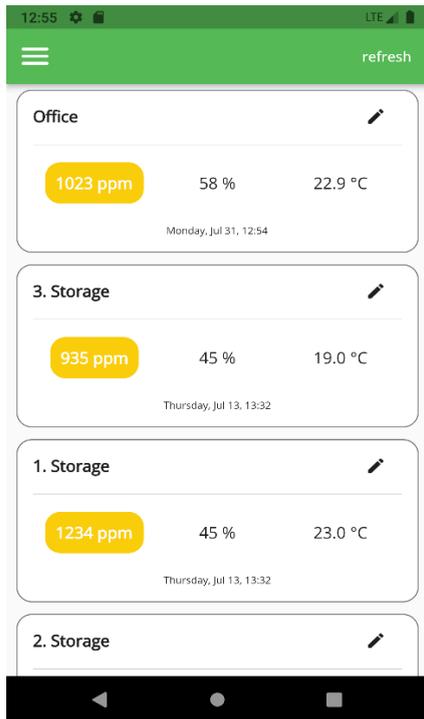
Tap on "Scan nearby devices"
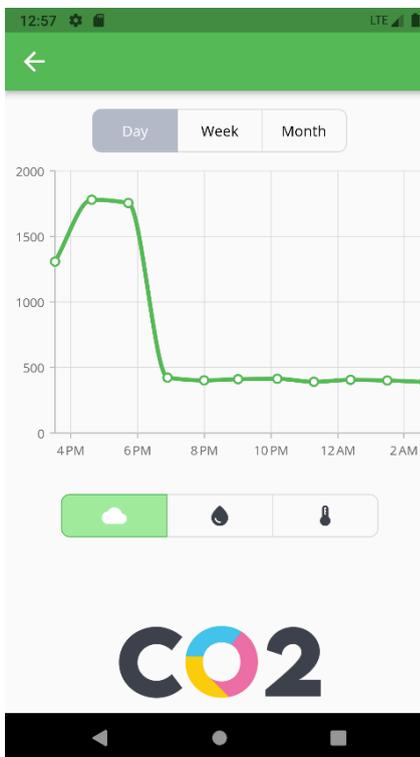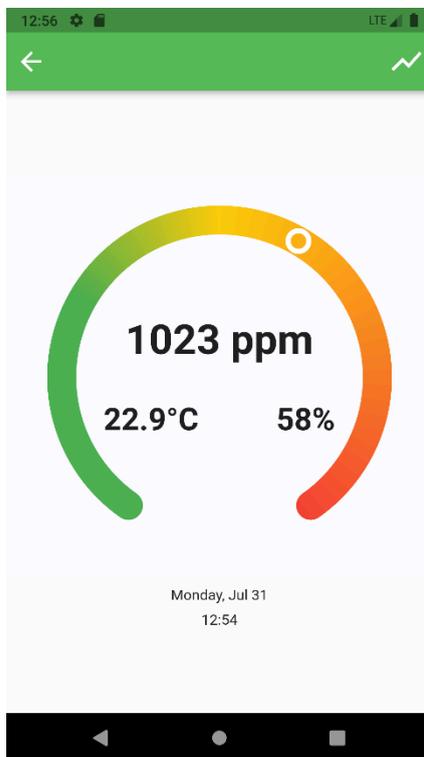(make sure Bluetooth is turned on)
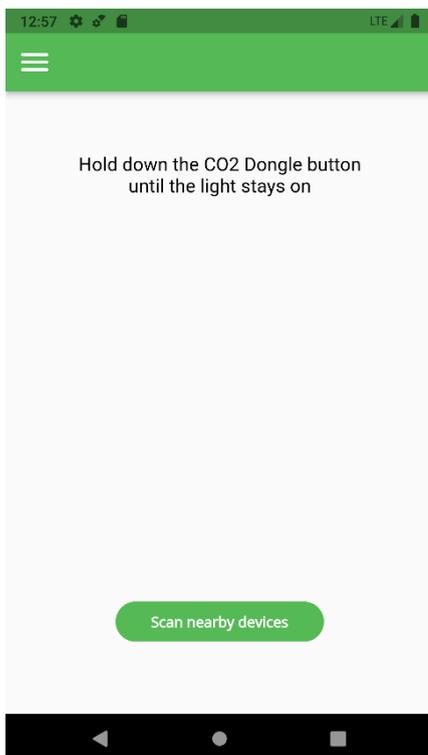
You should see a device with the name "LUXAFOR DONGLE" appear - tap on it

New screen should show up, type in your local Wi-Fi credentials, so that CO₂ Dongle can upload data to the servers

Reading data on the Luxafor CO₂ Dongle App
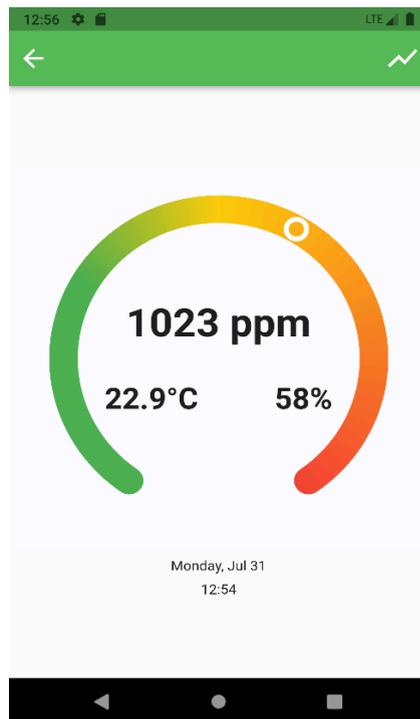
Graphs

1. CO_2 concentration level in ppm (parts per million)

2. CO_2 threshold level indication with the arrow pointing to a certain color of the scale:

• Green represents normal level (below 800 ppm)

• Yellow represents average level (800 to 1200 ppm)

• Orange represents a high level (1200 to 1400 ppm)

• Red represents an extremely high level (above 1400 ppm)

3. Relative humidity of the air (RH%)

4. The temperature of the air in Celsius or Fahrenheit

5. Alarm icon (visible on the App only when the Alarm mode is active)
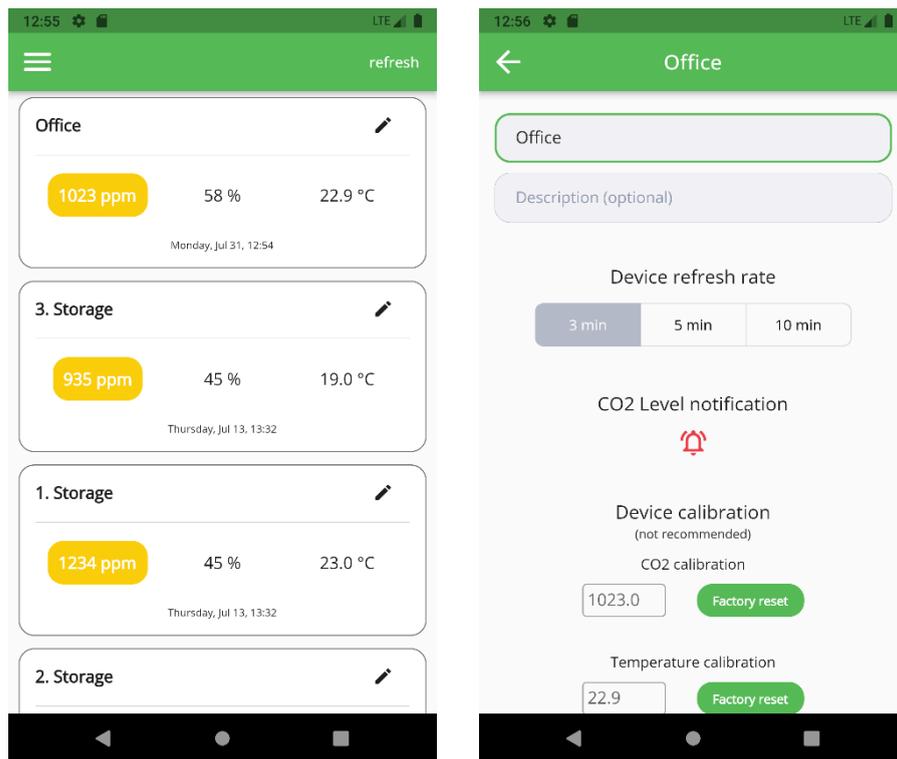
Share access to Luxafor CO_2 Dongle data with others
(via "Read only" mode)

There are 2 types of users for the App:
1.   "Owners" who set up the Luxafor CO_2 Dongle and edit the Dongle settings;
2.   "Guests" who are the users of the App and have access to the Dongle data, but can not edit the settings.
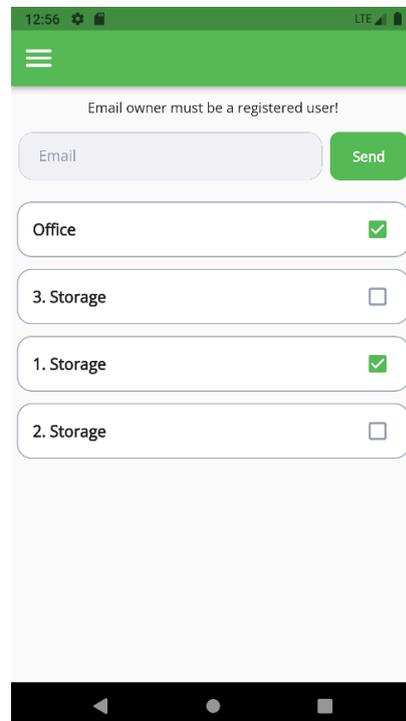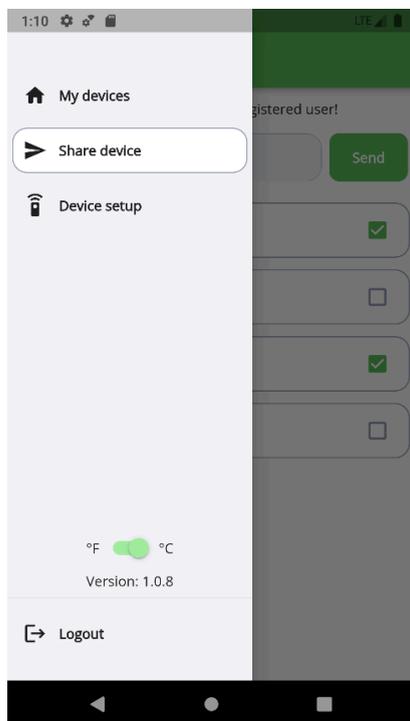
Settings (Owners only)

There are multiple settings you can reconfigure:

- Assign the name to your Dongle;
- Change the Dongle refresh rate;
- Turn On/Off CO_2 level notification;

The "Settings" section is only available for the registered owner of the device.

Default mode is active when you first plug in and turn on the device. It displays the CO_2 level, temperature and humidity on the App in real-time without any alarms. Tap on the edit icon ✏ to activate the Alarm mode. When your CO_2 level exceeds 1200 ppm, the device will start buzzing every 3 minutes.

Switch metrics (C/F)
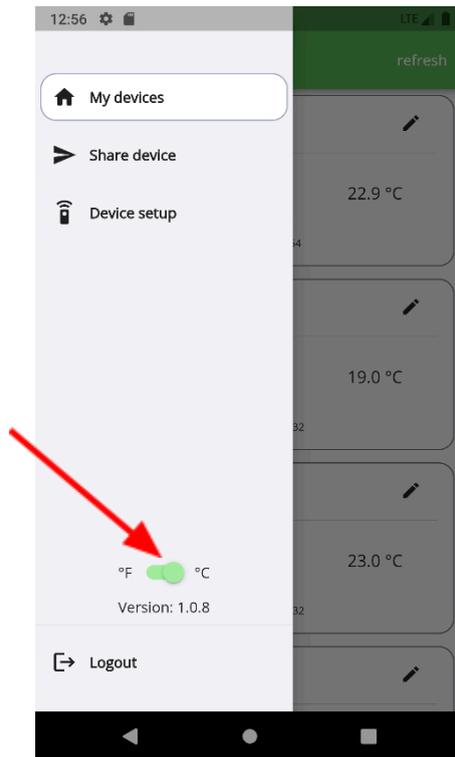
You can switch between metric and imperial systems at the bottom of the screen using the "Toggle" button.

Recommendations

In order to achieve maximum measurement accuracy, we recommend using 1x Luxafor CO_2 Dongle per <100m sq.m. (<1,080 sq.ft.) of space. However, since CO2 is a gas and distributes evenly around the space, the space size isn't necessarily a factor that affects CO_2 measurements.

CO_2 Measurement Performance

The CO_2 measurement is based on the dual wavelength NDIR principle, which compensates for ageing effects, is highly insensitive to pollution and offers outstanding long-term stability. A multiple point CO_2 and temperature factory adjustment procedure leads to excellent CO_2 measurement accuracy over the entire temperature working range.

If you have any questions, please don't hesitate to contact us at support@luxafor.com or call +371 27755544.

Send us a full report of the issue, explaining the details of the situation, when the issue first occurred, and if the issue persists throughout the troubleshooting process. We strongly recommend adding pictures/ videos to better explain the situation.