Luxafor CO_2 Monitor

User Manual

Luxafor CO₂ Monitor Package Contents

Luxafor CO₂ Monitor

1x Luxafor CO₂ Monitor
1x USB Data Cable
0.5 m (20")
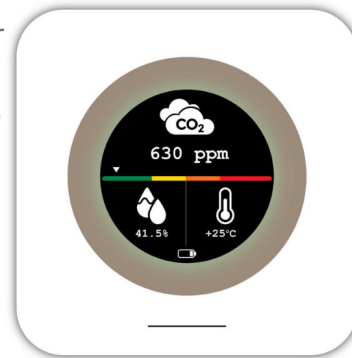
Charging cable

Product Specifications

Dimensions:	52 x 52 x 27 mm (2.05 x 2.05 x 1.06")
Weight:	55g (1.94oz)
Measurements:	CO₂ (carbon dioxide), temperature, relative humidity
Operating environment:	Indoor use

Measurement range:	CO₂ (ppm)	0 to 5000
	temperature (°C)	0 to 60
	temperature (°F)	32 to 140
	relative humidity (% rH)	0 to 100
Measurement accuracy:	CO₂ reading (ppm) Accuracy at 25 C and 1013 mbar (77 F and 14.69 psi)	0...2000 ppm < ± (50 + 2 % of the measured value)

		0...5000 ppm < ± (50 + 3 % of the measured value)
	temperature reading (°C)	±0.5 (15 to 40 °C) ±1.0 (0 to 60 °C)
	relative humidity (% rH)	±3.5 (20 to 80% rH) ±5.0 (0 to 100% rH)

Sensor: Nondispersive infrared (NDIR) sensor for measuring CO_2

Calibration interval: 5 years

Data update rate: 5 minutes

Power options: USB Powered / 1200 mAh Li-ion battery

Battery life: Up to 3 weeks

Operating temperature: 0°C to 50°C (32°F to 122°F)

Operating humidity: 0% to 85% non-condensing

E-ink display: Resolution: 200 x 200   Viewing angle: >170°

Display color: Black & white

Notification light: 1 x RGB LED

Sound alarm: Buzzer

Construction: ABS

Charging Instructions

1. Prior to use, charge the Luxafor CO_2 Monitor by connecting the included charging cable into a USB power outlet, such as a USB charger, and plug the other end into the Luxafor CO_2 Monitor's micro USB charging port. Charging time approx. 3 - 5h. When charging is complete, the Lightning bolt symbol will disappear and be replaced by the linear scale.
2. The Luxafor CO_2 Monitor will turn on immediately when the charging has begun. A Lightning bolt icon will indicate that the unit is being charged.
3. You can use the Luxafor CO_2 Monitor unit safely during the charging process - it will operate normally.

Turning the Device On and Off

To turn on the device, short press the button at the back of Luxafor CO_2 Monitor. To turn off the device, long-press the button at the back of the unit and hold for approx. 6 seconds. Release when a Red light appears in the LED indicator window below the E-ink screen and the device will turn off automatically.

Button Functionality

There is a button at the back of Luxafor CO_2 Monitor. Follow the instructions below to access various functionality controlled by this button:

Turn the device on	Short press 1x
Refresh data	Short press 1x
Stop the alarm sounding	Short press 1x
Turn alarm mode on/ off	Press and hold for 3 seconds (indicated by RED LED and icon on the screen)
Switch between F/C temperature readings	Short press 2x
Turn off the device	Press and hold for 6 seconds

Regular mode

Regular mode is the default mode that is active when you first turn on the device. It displays the CO_2 level, temperature, humidity, and battery level on the screen in real-time without any alarms.

Alarm mode

The alarm mode is activated and deactivated by holding a button for 3 seconds. When this mode is activated, a RED LED light will be visible for 5 seconds and a small alarm icon will show up.

When your CO_2 level exceeds 1000 ppm, the device will start buzzing every 1 minute and the LED will blink red for 3 seconds every 1 minute.

When your CO_2 level exceeds 1200 ppm, the device will sound the buzzing alarm every 5 seconds and the LED will blink red constantly. It's an indicator that the room needs ventilation to remove any aerosols from the air as soon as possible.

You can stop the alarm by pressing the button 1x and it will be deactivated and will auto-activate again when the CO2 level drops below 800 ppm, if not turned off.

Reading the Measurements on the Screen
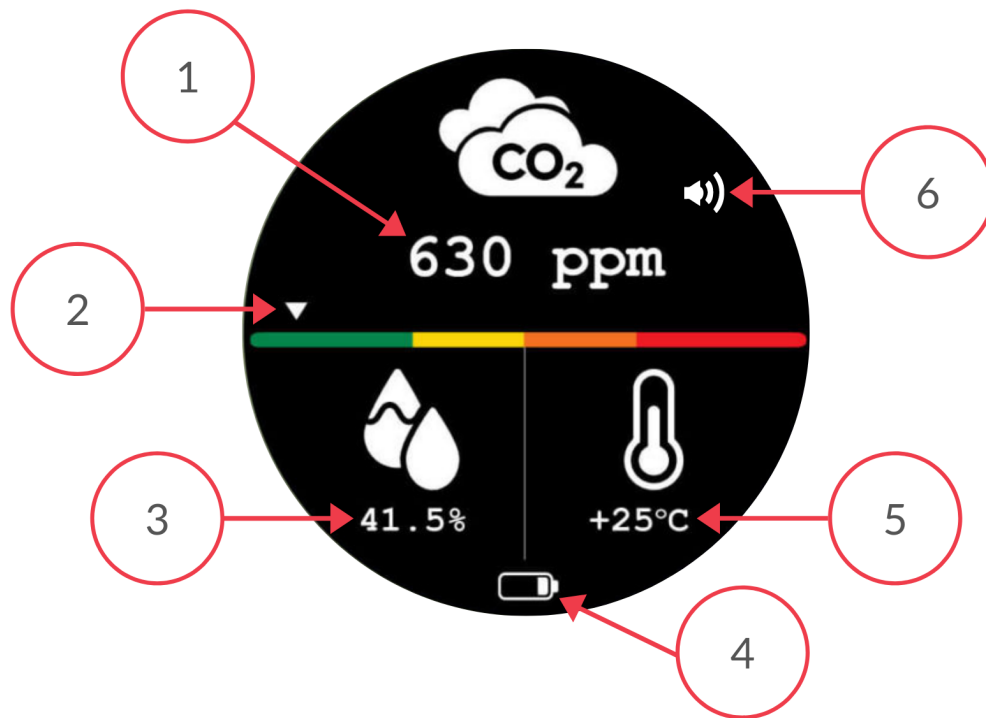
1. CO_2 concentration level in ppm (parts per million)
2. CO_2 threshold level indication with the arrow pointing to a certain color of the scale:

   - Green represents normal level (below 1000 ppm)

   - Yellow represents average level (1000 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. Battery level
5. The temperature of the air in Celsius or Fahrenheit (refer to "Button Functionality"

of this manual for instructions on switching between F/C)
6. Alarm icon (visible only when the Alarm mode is active)

CO 2 Measurement Performance

The CO2 measurement is based on the dual wavelength NDIR principle, which compensates for aging effects, is highly insensitive to pollution and offers outstanding long-term stability. A multiple point CO2 and temperature factory adjustment procedure leads to excellent CO2 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.