



VISION CO2U-V2 USB Powered CO2 Monitor User Manual

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VISION

VISION CO2U-V2 USB Powered CO2 Monitor



Product Information

The Vision CO2 Monitor is a USB-powered device designed to provide a clear indication of when further ventilation is required. It helps in maintaining a healthy environment by detecting increased levels of CO2, which can reduce productivity, have long-term adverse health effects, and increase the transmission risk of airborne viruses. The monitor uses CO2 as a reliable proxy for poor ventilation in reasonably occupied spaces.

The package includes:

- Vision CO2 Monitor
- USB 2.0 to USB Type C Cable (2m)
- Mains Adapter

The monitor features a multicolored display that indicates the CO2 levels in the following ranges:

- Up to 600ppm
- 601 – 800ppm
- 801 – 1000ppm

It operates on a power supply of 5V DC through a USB Type C connection.

Technical Specifications

- Power Supply: 5V DC – USB Type C
- Power Consumption: [Not specified]
- CO2 Range: [Not specified]
- CO2 Accuracy: [Not specified]
- CO2 Display Resolution: [Not specified]
- CO2 Sensing Method: [Not specified]
- CO2 Typical Sensor Life: [Not specified]

- Temp Range: [Not specified]
- Temp Accuracy: [Not specified]
- Temp Display Resolution: [Not specified]
- RH Range: [Not specified]
- RH Accuracy: [Not specified]
- RH Display Resolution: [Not specified]
- Operating Conditions: [Not specified]
- Sampling Method: [Not specified]
- IP Rating: [Not specified]
- Housing Material: [Not specified]
- Colour: [Not specified]
- Approval: [Not specified]

Product Usage Instructions

1. Connect the Vision CO2 Monitor to a power source using the provided USB Type C cable.
2. Ensure that the monitor is placed in a reasonably occupied space where ventilation is required.
3. Observe the multicolored display to monitor the CO2 levels.
4. If the CO2 levels are within the range of up to 600ppm, the ventilation is adequate.
5. If the CO2 levels are between 601 – 800ppm, it indicates that further ventilation is recommended.
6. If the CO2 levels reach 801 – 1000ppm, immediate action should be taken to improve ventilation.
7. Regularly monitor the CO2 levels and adjust ventilation accordingly to maintain a healthy environment.

The Vision CO2 Monitor is designed to provide a clear indication of when further ventilation is required. Poor ventilation and increased levels of CO2 can reduce productivity, has long term adverse health effects, and can significantly increase the transmission risk of airborne viruses.

There is 400ppm CO2 in air and we breathe out approximately 40,000ppm with each breath, so CO2 is the most reliable proxy for poor ventilation available in reasonably occupied spaces.

CONTENTS

- Vision CO2 Monitor
- USB 2.0 to USB Type C Cable (2m)
- Mains Adapter

TECHNICAL SPECIFICATION

- Power Supply 5V DC – USB Type C
- Power Consumption <300mA
- CO2 Range 0 – 10,000ppm
- CO2 Accuracy ± 40 ppm +3% @ NTP
- CO2 Display Resolution 1ppm
- CO2 Sensing Method Non Dispersive Infra-red (NDIR)
- CO2 Typical Sensor Life 10 Years
- Temp Range 0 – 40°C

- Temp Accuracy $\pm 0.3^{\circ}\text{C}$ @ 25°C
- Temp Display Resolution 0.1°C
- RH Range 0 – 95% (NC)
- RH Accuracy $\pm 2\%$ @ 20 – 80%
- RH Display Resolution 0.1%
- Operating Conditions Temp 0 – 40°C
- Humidity 0 – 95% (NC)
- Sampling Method Diffusion
- IP Rating IP40
- Housing Material Flame Retardant ABS
- Colour Pure White (RAL9010)
- Approval CE, UKCA

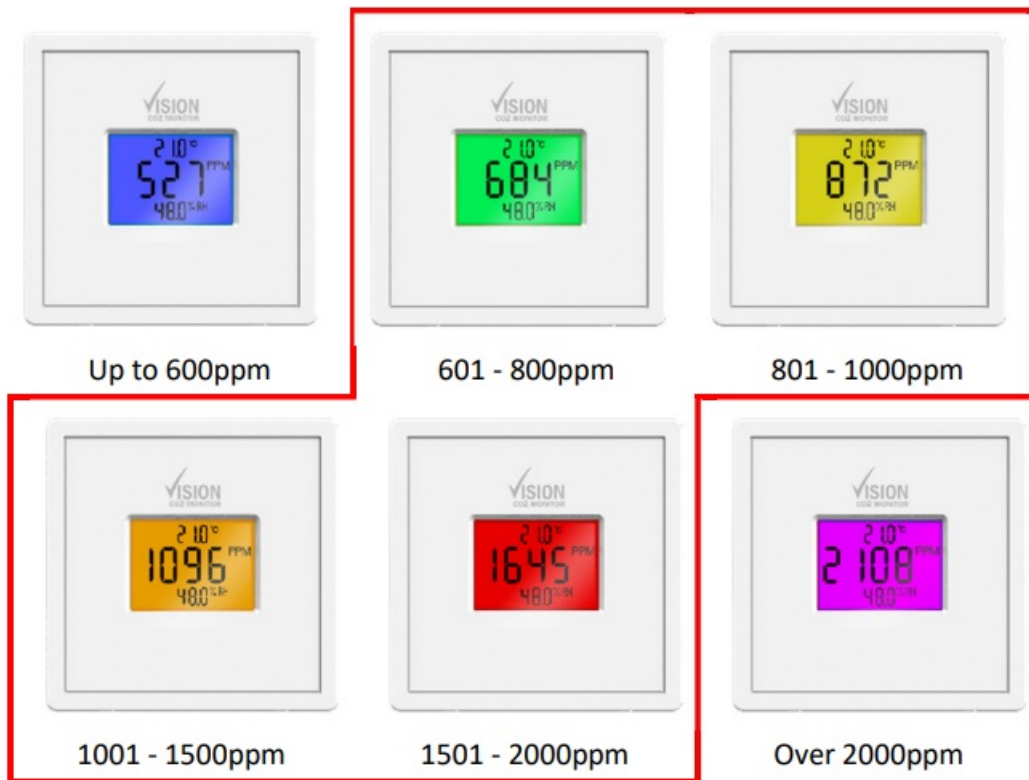
DIMENSIONS

- Desk Mount: H: 84mm W: 84mm D: 36mm
- With Wall Bracket Fitted: H: 84mm W: 88mm D: 40mm

IMPORTANT – Please read carefully

- The Vision CO₂ Monitor is for indoor use only under normal temperature and pressure conditions.
- It is recommended that the unit be powered from a Laptop/PC or with the USB Mains Adapter Plug. The use of poor quality or unstable supplies may result in damage to the monitor.
- This is not a safety device and should only be used for air quality monitoring. This is not suitable where large concentrations of CO₂ may be present, such as areas with piped or bottled CO₂. If there is any question over the suitability of CO₂ monitoring for your application, please contact a specialist.
- To self-calibrate accurately, the monitor should be continuously powered and exposed to outside levels of CO₂ at least once every 8 days. This can be achieved by ensuring that a room is purged by opening windows and/or doors until the CO₂ levels reaches the lowest stable reading.
- If the units are powered down and moved regularly, they must be powered for an 8 day period at least every 3 months to maintain accuracy.
- CO₂ Monitoring will not provide an accurate indication of air quality when air purifiers are used as although these clean the air, they do not remove CO₂.
- To clean your Vision CO₂ Monitor wipe with a dry cloth only. Solvents and aerosols can cause irreparable damage to the sensor.

MULTICOLOURED DISPLAY



Blue and Purple are disabled as default. To enable these or change the PPM alarm levels, please use the Windows App that can be downloaded from the website.

WINDOWS APP CONFIGURATION

WARNING – DO NOT adjust these settings without consulting a specialist during a pandemic. The Windows App is not necessary for normal operation.

The Windows App that is free to download from: www.flamefast-gas-safety.co.uk/vision

This will allow the following parameters to be changed:

- CO2 Readout Enable / Disable (LCD still changes colour)
- Temp Readout Enable / Disable
- RH Readout Enable / Disable
- Temp Display oC / oF
- Backlight ON / OFF
- Brightness 25 / 50 / 75 / 100%
- Auto-calibration ON / OFF

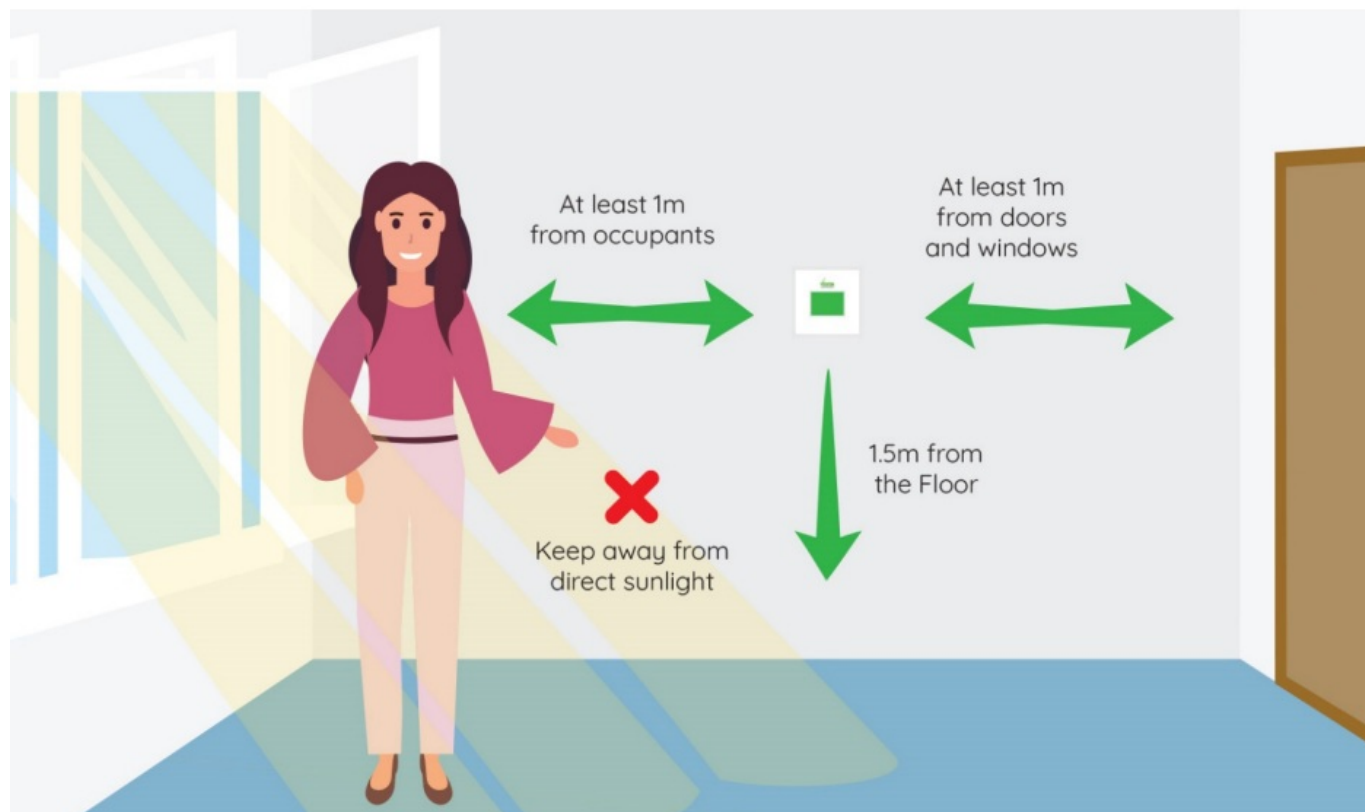
The Multicolour display must have at least two colours active, and the thresholds are limited to reasonable figures for the unit application.

Other function include:

- View 30 Day Historical Data (15 min intervals – not real time date stamped)
- Download Historical Data to CSV
- Factory Reset
- Force Sensor Calibration

LOCATION & INSTALLATION

VISION CO2 MONITOR



1. To allow the release of the Wall Bracket, remove the Screw from the Base of the unit.



2. Slide the Wall Bracket downwards to release. DO NOT TRY TO UNCLIP THE BRACKET.



3. If the unit is to be desk mounted, replace the screw, and retain the Wall Bracket for future use.



4. Fix the Wall Bracket to the wall using appropriate fixings (not included). Be careful not to overtighten as this can distort the plastics.



5. Press the USB Cable into the securing channel, ensuring there is sufficient cable to loop to the cable entry point, then slide the Monitor into the bracket to lock in place.

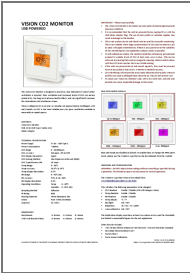


6. Replace the securing screw to ensure that the monitor and cable cannot be removed, then plug the cable into the Vision power socket.



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<https://www.gmciuk.com/vision-co2-monitor-1898>

	<p>VISION CO2U-V2 USB Powered CO2 Monitor [pdf] User Manual</p> <p>CO2U-V2 USB Powered CO2 Monitor, CO2U-V2, USB Powered CO2 Monitor, CO2 Monitor, M onitor</p>
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References

-  [Welcome to GMCiUK | Test & Measurement Products | Professional Support](#)