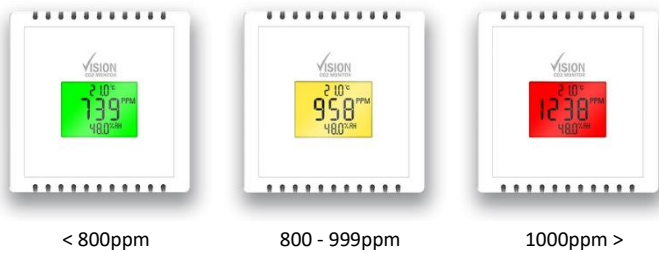# VISION CO2 MONITOR
USB POWERED

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

TRAFFIC LIGHT SET POINTS

< 800ppm	800 - 999ppm	1000ppm >

CONTENTS
Vision CO2 Monitor
USB 2.0 to USB Type C Cable (2m)

OPTIONAL EXTRAS
USB Mains Adapter Plug
Wall Mount Bracket Kit

TECHNICAL SPECIFICATION

Power Supply	5V DC - USB Type C
Power Consumption	<500mA
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	±0.3°C @ 25°C
Temp Display Resolution	0.1°C
RH Range	0 - 95% (NC)
RH Accuracy	±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
H: 84mm   W: 84mm   D: 36mm

IMPORTANT – Please read carefully

1. The Vision CO2 Monitor is for indoor use only under normal temperature and pressure.
2. It is recommended that the unit be powered from a Laptop/PC or with the optional USB Mains Adapter Plug. The use of poor quality or unstable supplies may result in damage to the monitor.
3. Whilst the display may show as Green, there should always be a level of background ventilation to ensure that any pollutants are removed.
4. This is not a safety device and should only be used for general air quality monitoring. This is not suitable where large concentrations of CO2 may be present.
5. Whilst this device may be considered portable, it is designed to be **permanently powered** in a single location. Regularly removing power from the device will disrupt the Automatic Background Calibration and affect the sensor accuracy.
6. To self-calibrate accurately, the monitor should be 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 doors for a period of time.

INSTALLATION OF WALL BRACKET
Installation of the wall bracket should only be carried out by a competent person.

When fixed to the wall, the Vision CO2 Monitor should be mounted at 1500mm from the floor, and careful consideration should be given to ensure that the power cable is secured to avoid snagging.

The Wall Bracket is designed to make the Vision a permanent fixture and will penetrate the plastic for mounting.

Wall Bracket Installation
Screwing the rear part of the bracket to the wall can be done directly into some surfaces such as wood or conduit. Certain surfaces may require the use of the wall plugs provided. When using the wall plugs, please use a 6mm masonry drill bit.

It is important that you use the screws provided as if they do not sit flush with the bracket, the Vision may not seat correctly.

Sensor Bracket Installation
The bracket is to be mounted 10mm from the top of the unit, ensuring it is level and centred horizontally.

The self-drilling screws are designed to allow fixing without the need for a drill.

When screwing the bracket into the rear of the unit, do not use a drill as this may damage the internal PCB, and using an electrical screwdriver when tightening screws may cause damage to the plastics.

Fitting Sensor to Wall
Once the brackets are fixed to the monitor and the wall, the Vision simply slots into place.

Continue to slide the unit down until you feel the securing 'click'.