

## Description

This monitor records levels of carbon dioxide (CO<sub>2</sub>) and indicates if action is needed to improve air quality within your home. The ambient temperature is displayed.



## Safety Instructions

- Always switch off the electrical supply before commencing installation.
- This product must be connected to switched connection unit fitted with a 5A fuse.
- All products must be installed by a competent/qualified person in accordance with all relevant regulations and legislation, including the current editions of the Building Regulations and BS 7671, the IET Wiring Regulations.

**If in doubt, contact a qualified electrician**

## Product Features

- Provides data on the highest level of CO<sub>2</sub> within the previous 24 hours, as well as the average level within the previous 8 and 24 hour periods.
- The levels of CO<sub>2</sub> are measured in parts per million (ppm).
- Temperature displayed in Celsius.
- Traffic light to indicate if action is required to improve ventilation.
- Alarm thresholds can be adjusted by the installer.
- CO<sub>2</sub> levels are logged every 10 minutes to calculate the average.
- Fits into a 35mm 1g back box.
- Two-part assembly, mounting plate can be installed at 2<sup>nd</sup> fix with monitor head installed at later date.

## Installation Position

This safety device should be installed in rooms that are continuously occupied and are enclosed spaces, e.g. bedrooms

1. Mounting Height 1.4-1.8m
2. Mounting position must be easily visible and easily accessible
3. This monitor must not be positioned in 'dead air space' e.g. within 150mm of the ceiling or an adjacent wall, or where it can be obstructed by furniture or furnishings. It should not be positioned next to a door, window or air vent.
4. This product fits onto a 1g 35mm mounting box, flush or surface

## Installation

1. Using a flat screw driver, press in the two securing clips at the bottom of the monitoring head, whilst easing it away from the mounting plate from the bottom, whilst protecting the monitor head from damage.
2. This product must be connected to switched connection unit fitted with a 5A fuse.
3. Terminate the mains supply cables into the terminals in the mounting plate:
 

L	permanent live
N	neutral
E	earth
4. Screw the mounting plate into position, onto the back box
5. Offer the monitor up to the mounting plate top first and clip into place.
6. This monitor should be protected from dust ingress during all building works.

## Adjustments

The ppm threshold for the display changing from green to amber and red can be set by adjusting the DIP switches on the monitor (these settings are also detailed on the PCB):

- Green to Amber threshold 600 to 900ppm
- Amber to Red threshold 200 to 500ppm above Amber threshold

### DIP switch settings

Green to Amber	DIP 1	DIP 2	Amber to Red	DIP 3	DIP 4
600ppm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	+200ppm	<input type="checkbox"/>	<input checked="" type="checkbox"/>
700ppm	<input type="checkbox"/>	<input type="checkbox"/>	+300ppm	<input type="checkbox"/>	<input type="checkbox"/>
800ppm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	+400ppm	<input type="checkbox"/>	<input checked="" type="checkbox"/>
900ppm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	+500ppm	<input type="checkbox"/>	<input checked="" type="checkbox"/>

default

## Operation

The Carbon Dioxide (CO<sub>2</sub>) Monitor displays the current Carbon Dioxide level in parts per million (ppm) and gives clear indication if increased ventilation is needed to improve air quality.

Poor air quality, particularly in continuously occupied and enclosed spaces, e.g. bedrooms, can lead to complaints of drowsiness and headaches.

By pressing the button once the display will cycle to show the 8 hour average, 24 hour average, 24 hour highest and back to the default current level. The background colour of the button will change depending upon the settings – see Adjustments.

If background colour is Amber or Red, ventilation should be increased to improve air quality

**It is recommended that the CO<sub>2</sub> level is checked each morning**

## Product Specification

Voltage	100-240Vac 50Hz	Response Time (T90)	< 2 minutes
Power Consumption	<15mA	Warm-up Time	30 seconds
CO <sub>2</sub> Range	0 – 9999ppm	IP Rating	IP 40
CO <sub>2</sub> Accuracy	±40 ppm	Material	Flame Retardant ABS
Display Resolution	1ppm	Terminal Capacity	1 x 1.5mm <sup>2</sup>
Ambient Operating Temperature	0 – 50°C	Dimensions	86 x 86 x 15mm
Humidity	0 – 95% RH	Mounting Box	1g 35mm

**Deta Electrical Company Limited**

Kingsway House Laporte Way  
Luton Bedfordshire LU4 8RJ UK

Technical Helpline: +44(0)1582 544 548