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Description		
This monitor records levels of carbon dioxide (CO2) and indicates if action is needed to improve air quality within your home. The ambient temperature is displayed.	Bring 24 Normal 24 Minut Beller Bring 24 Normal 24 Minut Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Brings Bring Brings Bring Brings Bring Brin	
Safety Instructions	Product Features	
 Always switch off the electrical supply before commencing installation. This product must be connected to an accessible switched connection unit fitted with a 5A fuse. This product must be installed in a 35mm 1g back box manufactured to EN 60670-1. 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 this equipment is used in a manner not specified by the manufacturer, protection provided by the equipment may be impaired. 	 Provides data on the highest level of CO2 within the previous 24 hours, as well as the average level within the previous 8 and 24 hour periods. The levels of CO2 are measured in parts per million (ppm). Temperature displayed in Celsius (can be disabled). Traffic light to indicate if action is required to improve ventilation. Alarm thresholds can be adjusted by the installer. CO2 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 2nd fix with monitor head installed at later date. 	
If in doubt, contact a qualified electrician		
Installation Position	Installation	
 This safety device should be installed in rooms that are continuously occupied and are enclosed spaces, e.g. bedrooms Mounting Height 1.4-1.6m. Mounting position must be easily visible and easily accessible. 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, air vent or within 1m of a potential headboard location. This product fits onto a 1g 35mm mounting box, flush or surface. This product is designed for indoor use under standard atmospheric conditions. 	 Using a flat screwdriver, 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. If the temperature readout is not required, remove the jumper link as indicated on the PCB. This product must be connected to switched connection unit fitted with a 5A fuse that is accessible by the user. The cable used for installation should be solid core with a cross sectional area greater than 1mm². Terminate the mains supply cables into the terminals in the mounting plate: L permanent live N neutral earth Screw the mounting plate into position, onto the back box. Offer the monitor up to the mounting plate top first and clip into place. This monitor should be protected from dust ingress during all building works. 	
Adjustments	Operation	
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	The Carbon Dioxide (CO ²) 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.	
Green to Amber DIP 1 DIP 2 Amber to Red DIP 3 DIP 4 600ppm Image: Amber to the second sec	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.	
700ppm 🖉 +300ppm 🖉 default	If background colour is Amber or Red, ventilation should be increased to improve air quality.	
800ppm +400ppm 900ppm +500ppm	It is recommended that the CO ² level is checked each morning.	

deta^{*}

Voltage	100-240Vac 50Hz	Response Time (T90)	< 2 minutes
Power Rating	300mW	Warm-up Time	30 seconds
CO2 Range	0 – 9999ppm	IP Rating	IP 40
CO2 Accuracy	±40 ppm	Material	Flame Retardant PC/ABS
Display Resolution	1ppm	Terminal Capacity	1 x 1.5mm ²
Ambient Operating Temperature	0 – 50°C	Dimensions	86 x 86 x 15mm
Humidity	0 – 95% RH	Mounting Box	1g 35mm (EN 60670-1)
Product Usage Guidance			
Item Code: Description: Operation: Location: Frequency of Sensor Replacement Frequency of re-calibration:	1142 Carbon Dioxide (CO ₂) & Monitor levels of carbor needed to improve air q Monitor is located in the 10 years not applicable	Temperature Monitor n dioxide (CO2) and indicate if action is juality within your home e Master Bedroom	
How to use the CO ₂ Monite	or		
This CO ₂ Monitor will provide data previous 24 hours, as well as the a hour periods. This information will enable you to needs to be taken to improve the below provides guidance on what concentration levels of CO ₂ . The l It is advisable to initially check the	a on the highest level of CO ₂ within average level within the previous 8 o determine whether any action air quality in your home. The table action should be considered for va evels of CO ₂ are measured in parts e data daily and take whatever activ	the and 24 errious per million (ppm).	r quality in your home. Once the air quality
has reached an acceptable level tr factors, so regular readings should It is recommended that the CO ₂ le	the frequency of checks can be redu d be taken to make sure it is still sat evel is checked each morning.	icea, it should be remembered that the a tisfactory.	air quality levels can vary due to many
Note: CO ₂ is present in the inter are not in themselves a danger to	rnal and external air at concentrat o healthy occupants but can be ind	ion levels of around 400 parts per millio licative of the presence of high levels of	on (ppm). Levels of CO ₂ of up to 5,000 ppm other contaminants that may cause short
or more long-term health issues.			
or more long-term health issues. How To Improve Air Qualit	:y		
or more long-term health issues. How To Improve Air Qualit Your home has openable windows positioned to encourage ventilatic amounts, particularly if they are in	s and trickle ventilators to allow yo on through each room. To allow a t the same room.	u to adjust the fresh air entering each ro flow of air through your home, at least t	oom. Trickle ventilators are adjustable and wo trickle vents should be opened by similar
or more long-term health issues. How To Improve Air Qualit Your home has openable windows positioned to encourage ventilatic amounts, particularly if they are ir	s and trickle ventilators to allow yo on through each room. To allow a t o the same room. Action	u to adjust the fresh air entering each ro flow of air through your home, at least t	oom. Trickle ventilators are adjustable and wo trickle vents should be opened by similar
or more long-term health issues. How To Improve Air Qualit Your home has openable windows positioned to encourage ventilatic amounts, particularly if they are ir <u>CO₂ Level</u> Green	s and trickle ventilators to allow yo on through each room. To allow a f i the same room. Action	u to adjust the fresh air entering each ro flow of air through your home, at least t action required: check monitor is worki	oom. Trickle ventilators are adjustable and wo trickle vents should be opened by similar
or more long-term health issues. How To Improve Air Qualit Your home has openable windows positioned to encourage ventilatic amounts, particularly if they are ir CO ₂ Level Green Amber	s and trickle ventilators to allow yo on through each room. To allow a f i the same room. Action Normal concentration level, no Ventilation required, partially o	u to adjust the fresh air entering each ro flow of air through your home, at least t action required; check monitor is workin r fully open trickle ventilators or leave ro	oom. Trickle ventilators are adjustable and wo trickle vents should be opened by similar ng correctly oom door partially open
or more long-term health issues. How To Improve Air Qualit Your home has openable windows positioned to encourage ventilatic amounts, particularly if they are ir CO ₂ Level Green Amber Red	t y s and trickle ventilators to allow yo on through each room. To allow an n the same room. Action Normal concentration level, no Ventilation required, partially o Significant ventilation required,	u to adjust the fresh air entering each ro flow of air through your home, at least t action required; check monitor is workin r fully open trickle ventilators or leave ro open window and leave door fully oper	oom. Trickle ventilators are adjustable and wo trickle vents should be opened by similar ng correctly pom door partially open



