resideo

CO₂ Monitor

R200C2



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APPLICATION

Making shared spaces healthier places

In order to be more energy efficient, we have greatly improved the insulation of our homes and workspaces, to retain heat and lower our energy waste, but in doing so we have removed the natural ventilation avenues that allowed our homes to breathe.

Carbon Dioxide, or CO_2 , is a natural part of the atmosphere and the air we breathe. Humans exhale – depending on physical activity – between 4 and 50 liters of CO_2 per minute. Too much CO_2 leads to fatigue, deepened breathing, headache, increased blood pressure and pulse, decreased hearing ability.

The R200C2 monitor clearly indicates CO_2 levels and alerts to increases via audio and visual alerts so you can take action to ventilate the room and let fresh air in (or CO_2 out of the room).

By installing a carbon dioxide monitor in your home or building, you can easily assess the air quality indoors, and see at a glance when levels become excessive, allowing you to take action to keep yourself and others healthier.

Where to install?

The R200C2 CO_2 monitor should be installed in every room containing a fuel-burning appliance, and in rooms where people spend time, such as the living room, bedrooms, school rooms, home offices, meeting rooms or play rooms. CO_2 is slightly heavier than air, so the monitor should be wall mounted at eye level.

SPECIAL FEATURES

Clear LED reading

The R200C2 features a clean, defined colour LED read out that tells you what the real-time ppm (parts per million) of carbon dioxide is in the room. The status bar displayed is colour coded green, yellow and red, for convenient understanding at a glance.



Alert system

If high levels of carbon dioxide are detected, the ppm indicator will turn red, and a 75 dB voice alarm will sound to alert you to take immediate action to ventilate the room and seek fresh air. Voice alert function and other acoustic alarms can be switched off as needed.





Room temperature

Alongside the ppm reading, our alarm also tells you the temperature of the room, which is great for keeping children, pets and the elderly comfortable in both summer and winter.



Humidity detection

The R200C2 measures the humidity levels of the room too, which helps you to keep everyone cool and comfortable in summer.



10 Year Service Life and Warranty

Our alarm is built to last, with a marketleading 10 year service life for a great return on your investment and added peace of mind.



Beautiful design

At just 37mm thick, our carbon dioxide monitor is modern, clean, and designed to fit in discreetly with your decor.



Key features

Comes with a number of helpful features, such as voice notifications, backup battery, and wall design.



TECHNICAL DATA

	Ca
DC $5 V$ (Power adapter $5 V / 1 A$)	40
Non Dispersive Infrared (NDIR)	40
400 ~ 5000 ppm	
± (50 ppm + 5 %)	
+ 1.6 % per kPa deviation from	
normal pressure	
1 ppm; T90 < 120 s	>]
-5 °C ~ 50 °C or 23 °F ~ 122 °F	
± 0.5 °C or 0.9 °F	. 1
0.1 °C / °F; T90 < 120 s	> 1
0.1 %; T90 < 600 s	> 2
0.0 % ~ 99.9 % RH	
± 5 % RH	> 5
12 hours	, ;
10 years (Display shows: "End" at the end of service life)	ASI
IP40	Enç
99 mm x 99 mm x 37 mm	OSI
291 g (net weight)	NIC
EN IEC 63000:2018	
	400 ~ 5000 ppm ± (50 ppm + 5 %) + 1.6 % per kPa deviation from normal pressure 1 ppm; T90 < 120 s -5 °C ~ 50 °C or 23 °F ~ 122 °F ± 0.5 °C or 0.9 °F 0.1 °C / °F; T90 < 120 s 0.1 %; T90 < 600 s 0.0 % ~ 99.9 % RH ± 5 % RH 12 hours 10 years (Display shows: "End" at the end of service life) IP40 99 mm x 99 mm x 37 mm 291 g (net weight)

Carbon dioxide levels and guidelines				
400 ppm	Normal outdoo	or air level.		
400 ~ 1000 ppm	Typical level in ventilation.	doors with good		
	building check fo much fr	evels are low when g is sealed and occupied, or over ventilation (too esh air y wasted).		
> 1000 ppm	ASHRAE and OSHA recommended this as the			
	maximum leve	l acceptable in a		
	closed room. C			
		nfort level in many		
1000	countries.			
> 1200 ppm	Poor air quality ventilation.	/ – requires		
> 2000 ppm	Ŭ	nany studies this		
		oduces a significant		
	increase in arc headache, low	wsiness, tiredness,		
	concentration			
	likelihood of sp	reading respiratory		
	viruses like col	ds, etc.		
> 5000 ppm	OSHA and NIC	SH first threshold		
	for safety. Max	imum allowed		
	concentration	within an 8 hour		
AGUIDAE TIL A LA GALLA	working period			
ASHRAE: The American Society of	Heating, Refrigera	ting and Air-Conditioning		

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OSHA: The Occupational Safety and Health Administration (USA) NIOSH: The National Institute for Occupational Safety and Health (USA)

TRANSPORTATION AND STORAGE

Parameter	Value
Environment:	clean, dry and dust free
Ambient temperature:	10 °C - 45 °C
Storage temperature:	-10 °C - 60 °C
Ambient relative humidity:	0 % * - 95 % *

^{*}non condensing

ORDERING INFORMATION

Options

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Description:	OSNo.:
Monitor for West Europe with 1000/1500 thresholds	R200C2-A CO2
Monitor for West Europe with 900/1200 thresholds	R200C2-B CO2
Monitor for East Europe with 1000/1500 thresholds	R200C2-E CO2
Monitor for UK with 1000/1500 thresholds	R200C2-A-UK CO2

TECHNICAL CHARACTERISTICS



Green

A green indicator means CO_2 levels are safe, harmless, and under a healthy ≤ 1000 ppm limit.

Yellow

A yellow light is a warning sign, to flag when levels have reached between 1000 ppm ~ 1500 ppm. You should consider ventilating your home at this point, opening a window or door to allow fresh air in.

Red

When levels reach above 1500 ppm, the red colour alert will flash and the alarm will emit a 75 dB alarm sound. You should take immediate action to ventilate the room and everyone should access fresh air.



For more information www.resideo.com

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