

Visual CO2: Constant control of the air safety in enclosed spaces



Reliably visualize the level of CO₂ in the air – reduce the risk of COVID-19 transmission

- ✓ 7 signaling patterns based on CO₂ thresholds
- ✓ CO₂, Temperature and Humidity data monitoring
- ✓ Connect via Bluetooth® to mobile devices
- ✓ Manual and Automatic Calibration
- ✓ Plug & Play: Easy Installation
- ✓ On-demand customised CO₂ thresholds (at factory level)



Technical specifications

Connection

Power	1.75	W
Voltage	24	VDC
Range	~ 10%	-
Current	70	mA

Mounting

Ambient	Indoor
Position	Vertical
Protection index	IP23

Operation Ranges

Temperature	-0÷50	° C
Humidity	0÷90	% relative humidity
Size	385 x Ø94	mm
Weight	1.25	Kg

CO₂ Sensor Specifications

Parameter	Condition	Value
Measuring range	-	0-40.000
Accuracy	400-10.000 ppm	~ (30ppm + 3% MV)
Repeatability	400-10.000 ppm	~ 10 ppm
Thermal stability	T=0-50°C	~ 2.5 ppm /°C
Response time	τ 63%	20 s
Lifetime	-	15 years

Temperature Sensor Specifications

Parameter	Condition	Value
Measuring range	-	-40°C - 70°C
Accuracy	0-50°C	~ (2°C + 0.023 x (T[°C] - 25 °C))
Repeatability	-	~ 0.1 °C

Humidity Sensor Specifications

Parameter	Condition	Value
Measuring range	-	0 - 100%RH
Accuracy	25°C, 0-100%RH	~ 2°C
Repeatability	-	~ 0.1%RH

Thresholds and Signaling patterns

Range (CO ₂ ppm)	LEDs
CO ₂ < 800	Green 
800 < CO ₂ < 1000	Green + Yellow 
1000 < CO ₂ < 1300	Yellow 
1400 < CO ₂ < 1600	Yellow + Red 
1600 < CO ₂ < 1800	Red 
CO ₂ > 1800	Red slow flashing 
CO ₂ > 2000	Red fast flashing 

Support and technical assistance

Contact your NIHON KASETSU distributor, sales representative, or customer service center for technical support.

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1600 < CO₂ < 1800 ppm:

Ventilation is urgently required. The CO₂ level is too high. This increases the risk of COVID-19 transmission.

1000 < CO₂ < 1300 ppm:

Ventilation is recommended.

800 < CO₂ < 1000 ppm:

Good air quality. However during COVID-19 a CO₂ level of not more than 1000 ppm is recommended. Ventilation would be advisable.

CO₂ < 800 ppm:

Very good air quality. Ventilation not required.

*The German Federal Institute for Occupational Safety and Health recommends that the CO₂ level during a pandemic like COVID-19 should be well below 1.000 ppm.



Scan for more information