

Visual: S E N S I N G

Visual CO2

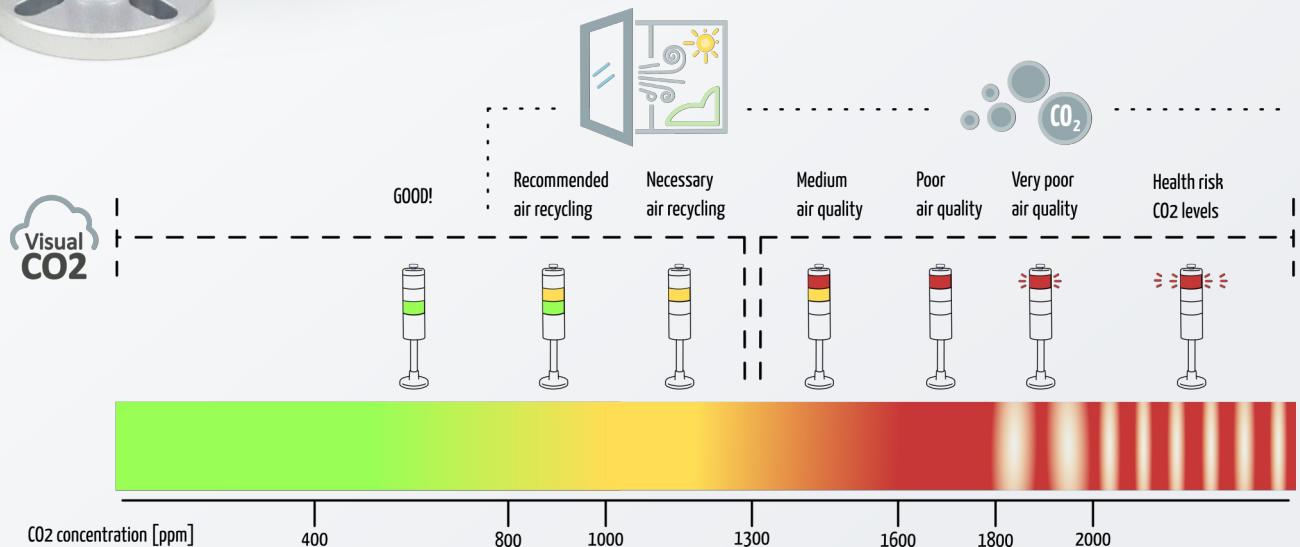
CO2

CO2 concentration is the best indicator to know when it is advisable to ventilate a room, and thus reduce the risk of spreading COVID and other aerosol transmitted diseases. The indoor air quality also influences occupants cognitive functions and consequently their learning and work performance.



Nihon Kasetzu's Visual Sensing

Visual CO2 is a signaling device for the level of CO2 concentration in the air, using three light indicators. It also has temperature and humidity measurement that can be viewed through a mobile application. The design of the device generates a flow of air throughout the interior of the beacon due to natural convection. The ambient air is captured through three holes located in the lower part, and circulates all the way across the interior until it exits through a regulating valve located in the upper part. Inside the base is the CO2 sensor that, using NDIR infrared absorption technology, allows the concentration in parts per million to be measured very precisely according to the amount of infrared light absorbed by the CO2 particles present in the air. Ensuring an optimal level of CO2 in a room serves not only to reduce the risk of spreading disease, but also to improve comfort and productivity.



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	0,6	Kg
*100-240 VAC adapter included		
CO2 SENSOR SPECIFICATIONS		
Range	-	0 - 10.000 ppm
Accuracy	400 - 10.000 ppm	± (30 ppm + 3% MV)
Repeatability	400 - 10.000 ppm	± 10 ppm
Thermal stability	T= 0 - 50 °C	± 2,5 ppm / °C
Response Time	τ63%	20 s
TEMPERATURE SENSOR SPECIFICATIONS		
Range	-	-40 °C - 70 °C
Accuracy	0 - 50 °C	± (1 °C + 0,023 x (T [°C] - 25°C))
Repeatability	-	± 1 °C
HUMIDITY SENSOR SPECIFICATIONS		
Range	-	0 - 100 % RH
Accuracy	25 °C, 0 - 100 %RH	± 7,5 % RH
Repeatability	-	± 0,1 % RH

Apps for mobile devices



Collect recorded values from Visual devices in a near area

The Visual APP shows collected data in a graphic mode and allows to export the data via email (csv) for further analysis.



Quick set-up to show the real time value of a selected device in a wide-screen view

Visual Display is a simple interface straightforward to show the instantaneous value to any user present in the area.



* Both Apps can be used simultaneously with the same device, or with a group of devices.

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Visual
SENSING



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