



Preventing the Spread of COVID-19 by Measuring Indoor Air Quality

Indoor air quality plays an important role in the time of a pandemic. As people are gradually going back into work, school, restaurants, cinemas, hotels, etc. the need for indoor air quality increases.

The risk of getting COVID-19 is higher in crowded and inadequately ventilated spaces where infected people spend long periods of time together in close proximity.

These environments are where the virus appears to spread by respiratory droplets or aerosols more efficiently, so taking precautions is even more important.

Measuring CO₂ to combat aerosols

The CO₂ level increases when lots of people are in a poorly ventilated room and it is a type of indirect measurement for possible exposure to aerosols. Indoor air, which is only polluted by human use, is usually assessed by the CO₂ quality.

CO₂ sensors can help to detect how polluted the air in a room is. A CO₂ concentration of up to 1,000 ppm (parts per million) indoors is acceptable. For comparison: Outside air has a CO₂ value of approx. 400 ppm..

Taiwan, Norway and Portugal have laws that limit indoor CO₂ to 1,000 ppm. Studies in California and Madrid show that CO₂ levels in school classrooms frequently exceed this level. High levels have been linked to poorer mental concentration and more sick days.



Some studies suggest that in general 700 ppm would be a better limit, and lower limits should apply to gyms and other venues where people expel greater volumes of air.

Detecting elevated CO₂ concentrations indoors using the air quality meter, **C-LOGIC 7100-AQ**

Controlling the quality of the air we breathe will reduce the risk of spreading COVID-19. The C-LOGIC 7100-AQ can monitor high CO₂ levels indoors as well as the temperature and the humidity (Cold and dry conditions are potentiating factors on the spread of the virus).



The bright LCD display can be read from across a room and facilitates user-friendly presentation of CO₂, humidity and temperature values. In case the CO₂ concentration exceeds 1000 PPM, it will automatically trigger an 85dB alarm.

The desktop indoor air quality meter, **C-LOGIC 7100-AQ**, is simple and solid and its small size make it easy to keep on a desk or a table and monitor the air quality easily.





Measurement object	CO2	Temperature	Humidity
Range	400-5000 PPM	-10 - 50 °C	20 - 85 % RH
Resolution	±1 PPM	±1 °C	±4 % RH
Precision	±50 PPM		
Sampling time	< 1,5 sec		
Battery	Litio 2200 mA recargable (5V)		
Storage temperature	-10 °C - +60 °C		
Size	90x90x50 mm		
Weight	200g		
Content	1 x Air quality monitor; 1 x USB charging cable; 1 x User manual		

Potential Applications of the C-LOGIC 7100-AQ

The C-LOGIC 7100-AQ is an ideal smart desktop indoor air quality monitor for environmental quality control in the home, office building, meeting room and classrooms, hotels, showrooms, schools, hospitals, shopping centers, bars, restaurants, entertainment rooms, cinemas and other public places.

For further information a bout the C-LOGIC 7100-AQ, please scan the following QR code:



About C-LOGIC

C-LOGIC is a brand of MGL. At C-LOGIC we design and manufacture solutions for electrical measurement and safety.

We offer equipment designed for use in domestic and professional environments: multimeters, current clamps, wiring testers, environmental meters, etc. Our products meet the highest level of quality and it is tested and calibrated following the highest standards.

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