

Airtopia's CO<sub>2</sub> Minder Series is a range of Smart Air Management products designed for real-time monitoring and notification of room air quality. Managing comfort and bringing a new focus on individual wellbeing.

The CO<sub>2</sub> Minder provides a continuous visual indicator of the Carbon Dioxide concentration in a simple, inconspicuous wall plate. It provides a precise and reliable measurement for visual display and timely control of indoor air quality through an intuitive traffic light system.

## FEATURE SUMMARY

- Accurate and reliable measurement of CO<sub>2</sub> density
- Accuracy sensing range and response times
- CO<sub>2</sub> measured using Nondispersive Infrared Sensor (NDIR) method with built-in reference channel and temperature compensation
- Power supply: Standard USB ADAPTOR - 240V wall socket
- Visual status indication (Green, Amber, Red)
- Data logging (Optional - via SD card)



## APPLICATIONS - CO<sub>2</sub> VENTILATION ASSESSMENTS

- Potential indication of infection risk
  - Classrooms
  - Boardrooms
  - Retail and Hospitality
  - Offices and Shared spaces

SENSOR SPECIFICATIONS	CO <sub>2</sub> NONDISPERSIVE INFRARED SENSOR-NDIR
Range	0 -10,000ppm
Accuracy	+/- 30ppm or +/-3% (@ 25oC)
Repeatability	10ppm
Response time	20s (t <sub>63</sub> )
OPERATIONAL	
Supply	USB Power < 100mA
Environment	5 °C to 50°C, 0-90% relative humidity (non condensing)

## VISUAL INDICATOR RANGE

Messure	Green	Amber	Red
Environment	Normal	Over Warning	Over Alter
	400 - 800ppm	800 - 1500ppm	>1500ppm

## ACTION LIMITS

A number of independent organisations offer guidelines for CO<sub>2</sub> levels and improvements for infection control (IAQAA, WELL, NABERS, ABCB code Australia etc). The guidelines suggest values around the following for good indoor air quality.

Action limits should be applied as per below:

- Below 600ppm CO<sub>2</sub> indicates good ventilation and reduced infection risk from airborne materials (green).
- Below 800ppm CO<sub>2</sub> is acceptable IAQ and implies low infection risk (green).
- 800-1500ppm CO<sub>2</sub> indicates a need for more ventilation and implies increased infection risk (amber).
- Above 1500ppm CO<sub>2</sub>, requires more external air ventilation and implies an elevated infection risk. The space should be vacated until improvements are made (red).