

Indoor Air Quality (IAQ) Transmitters

Monitor: CO₂, CO, VOC, Temperature & Humidity



- Models: CD-100, CD-200, CD-300
- Measures: CO₂
- Choice of LCD Display
- Outputs: 4..20 mA & 2 to 10 VDC
Or 0 to 10 VDC & 0..20 mA
- Dimensions: 12.3 x 6.9 x 4.0 cm



- Model: SenseAir tSense
- Measures: CO₂, temperature & humidity
- Choice of LCD Display
- Outputs: 0 to 10 VDC, RS485, Modbus, BACnet, programmable relay
- Dimensions: 12.5 x 8.5 x 2.2 cm



- Model: AQM-100
- Measures: CO₂, temperature & humidity, VOCs: benzene, toluene, cigarette smoke, alcohol
- Outputs: RS232 or RS485
- Dimensions: 11.7 x 7.2 x 2.2 cm



- Models: SenseAir aSense, COD-100
- Measures: Carbon Monoxide (CO), CO₂ (aSense only)
- Outputs: VDC or 4..20 mA
- Dimensions: aSense: 14.2 x 8.4 x 4.6 cm
COD-100: 12.3 x 6.9 x 4.0 cm



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Why Measure CO₂ for IAQ?

- **Improve Building Performance Rating Score**

Building performance rating tools, such as Green Star and NABERS, specifically require monitoring of CO₂ levels to score points. For example, the Green Building Council of Australia scores 1 to 2 points if CO₂ levels are maintained below 800ppm or 700ppm respectively.

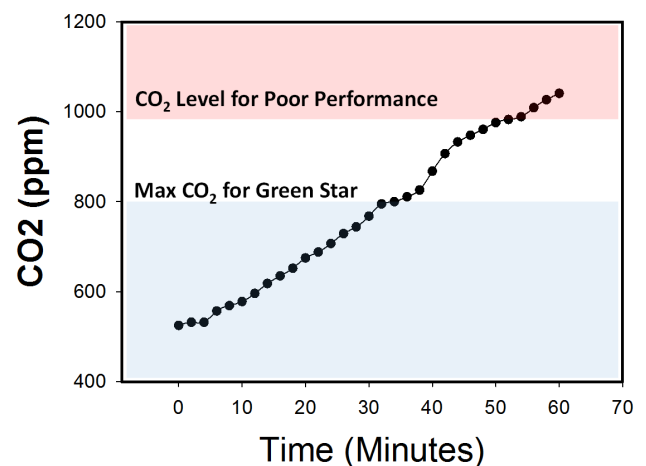


- **Increase Energy Efficiency and Save Costs**

Scientific studies have demonstrated that monitoring CO₂ for HVAC, rather than just temperature and/or humidity, can significantly increase energy efficiency and save costs. CO₂ transmitters can pay for themselves over several months (depending on size and type of installation).

- **Improve Workplace Productivity**

Researchers have shown that CO₂ levels above 1000ppm can negatively impact on concentration and increases lethargy in the workplace*. The graph to the right shows how indoor CO₂ levels can increase to 1000ppm in 50 minutes, demonstrating the need for adequate ventilation. *Satish et al. 2012. Environ. Health Perspec., 120: 1671-7.



- **Demand Controlled Ventilation (DVC)**

CO₂ transmitters are an easy, low-cost solution for DVC. CO₂ transmitters are ideal where room occupancy is intermittent or variable from original design conditions.

