

Indoor Air Quality CO₂ Monitors

Monitor air quality in schools, office buildings, greenhouses, factories, hotels, hospitals and anywhere that high levels of carbon dioxide are generated



IAQ PROBLEM

As more energy efficient homes and buildings are built or retro-fitted, it is more important than ever to ensure healthy indoor air quality resulting tightly-sealed, high performance building envelopes. There is a growing need to monitor air quality in schools, office buildings, greenhouses, factories, hotels, hospitals and anywhere that high levels of carbon dioxide are generated. Typical outdoor CO₂ levels are <350ppm and safe indoor levels are <1000ppm. Without adequate ventilation, these levels could rise resulting in drowsiness (<2000ppm); headaches, sleeplessness, poor concentration, nausea (<5000ppm); up to a lack of oxygen (>5000ppm) which could cause health problems.

IAQ SOLUTION

Extech Instruments has introduced the CO200 series of Indoor Air Quality CO₂ Monitors that provide important insights on the presence of carbon dioxide, air temperature, and humidity. These attractive, table top units display numerical data plus Models CO200 and CO210 have easy to understand Good, Normal and Poor air quality indicators. Model CO220 has six facial icons that indicate indoor quality levels. They feature a maintenance free NDIR (non-dispersive infrared) CO₂ sensor, user settable High/Low Visible and Audible CO₂ warning alarms, and built-in calendar that displays Year, Month, Date, and Time. The CO200 series can be manually calibrated in fresh air or by using the Automatic Baseline Calibration that checks minimum CO₂ level over 7.5 days.

Model CO200 has a built-in relay output that can be used to trigger ventilation control when alarm level is exceeded and comes complete with a Universal AC adaptor. Model CO210 has a built-in datalogger which can record up to 5333 points for each parameter and comes complete with a Universal AC adaptor, software, and cable. Model CO220 calculates Dew Point and Wet Bulb values, and statistical weighted averages of TWA (8 hour Time Weighted Average) and STEL (15 minute Short Term Exposure Limit). Comes complete with Universal AC adaptor.