

# Are You Making IAQ Investigation Mistakes?



**KANOMAX**  
The Ultimate Measurements

## Application Note

### *Common misconceptions can lead to poor results*

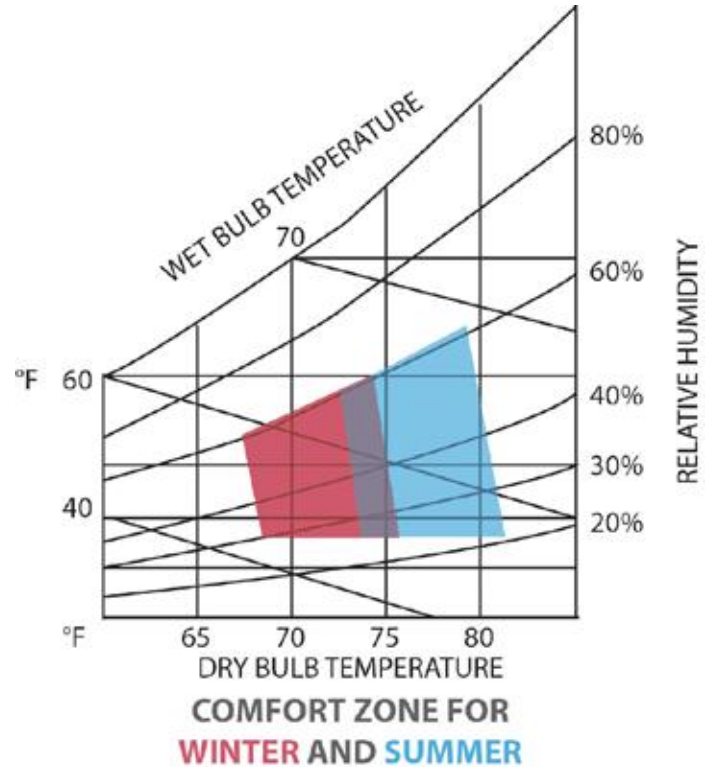
When we think of indoor air quality many people think of controlling the temperature and eliminating toxins such as carbon monoxide, and it is true that these two parameters are important factors, but they are only part of IAQ. Humidity is large factor in how comfortable a building's occupants feel and can lead to complaints of it being too hot or cold, even when the temperature is set at the correct level. The comfort zone chart is a useful tool for determining acceptable levels for humidity and temperature based on the season.



Model 2211  
Handheld IAQ Monitor

Another commonly overlooked parameter is actually one generated by the building's occupants: carbon dioxide. If there is too much CO<sub>2</sub> in the air it can make occupants feel lethargic, have trouble focusing and even cause headaches.

When investigating IAQ issues or designing a building or workspace make sure you consider all the parameters. Temperature and a toxin-free environment are only part of the picture. It may be necessary to install a dehumidifier in the summer or a humidifier in the winter to control humidity. The ventilation system needs to remove carbon dioxide produced by building's occupants and introduce enough fresh air. Information



Seasonal Comfort Zones  
Based on Temperature & Humidity

guides about how many exchange rates are needed for a particular space are published by ASHRAE and other organization and are readily available online.

Ensure that your IAQ instrument measures CO, CO<sub>2</sub> and humidity as well as temperature. You can save time and extra work if your instrument can automatically calculate the exchange rate or % of outside air introduced by the ventilation system.

The model 2211 from Kanomax is equipped with all these functions and can simultaneously measure all parameters making IAQ checks easy and productive. It also includes a data-logging function so your data can be downloaded to a PC for analysis and archiving. The instrument comes with PC software that allows you to store and view your data on a graph making it easy to identify problems and check if corrective measures have been effective.

Ensuring good indoor air quality isn't really difficult, but it takes some time to understand the relevant factors that impact it and it also takes some diligence as some ongoing maintenance and

checking is required to make sure parameters stay at acceptable levels. It's often easier to identify and resolve a problem if it's noticed quickly. If you have any questions about indoor air quality or the solutions Kanomax offers please contact us. We'll be happy to help you out with your application.



*A Comfortable Indoor Air Environment is important to maintaining worker productivity, focus and well-being.*

### *About Kanomax USA, Inc.*

Kanomax has delivered the best measurement solutions in its products and services that adapt precision measurement technology for fluids and particles. Kanomax product lines include anemometers, particle counters, dust monitors, and IAQ monitors. Kanomax is contributing to technological innovation and quality improvement for the processes of quality management, environment management, and technology development in the areas of environment, health, and energy, which are essential to sustain human well-being, as well as in other industrial areas including automobile, aerospace, semiconductor, electronics manufacture, heavy industry, steel, shipbuilding, pharmaceutical, biotechnology, food-processing, medical, construction, and civil engineering.

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