

# Indoor Air Quality Solutions



**KANOMAX**  
*The Ultimate Measurements*

# Ultimate Solutions for Indoor Air Quality Investigation

Demand for quality indoor air continues to increase as we are spending more time indoors than ever before. Indoor air quality (IAQ) issues can be complex due to the diversity of indoor environments. To address IAQ, national and local governments have developed guidelines for acceptable indoor air quality. Assessing indoor air quality in buildings begins with IAQ investigations using professional grade measuring instruments.



## Maintain Occupant Comfort and Productivity

### Ventilation Testing

Acceptable air quality is only achieved by providing air of the specified quality and quantity to a space. As well as improving occupant comfort, maintenance can be reduced and energy savings increased by balancing the HVAC system to the required ventilation rate for the building.

### Thermal Comfort Control

To achieve high occupant satisfaction, controlling thermal comfort is very important. Occupant satisfaction directly affects productivity and health. Therefore, parameters, such as air velocity, temperature, and humidity should be controlled to maintain an acceptable indoor environment.

## Handheld Anemometers

Kanomax anemometers can measure a wide variety of parameters to test ventilation rate. The parameters include air velocity, airflow, static pressure, temperature, and humidity of the indoor environment.

### Features and Benefits

- Hot-wire Anemometer measures air velocity and temperature simultaneously
- Built-in temperature compensation sensor keeps precise measurement across full temp range
- High accuracy rotating vane anemometer has simple operation
- Industrial grade enclosure and probe



Model A031



Model 6813

## Handheld IAQ Monitor

The Kanomax IAQ Monitor 2211 features quick start-up and high accuracy in measuring carbon dioxide and carbon monoxide concentration levels in the environment. Temperature and humidity are also simultaneously measured in a handy lightweight design.

### Features and Benefits

- Simultaneous measurements of CO, CO<sub>2</sub>, temperature, and relative humidity
- Interchangeable probe - accuracy is constant with spare probe as well
- Measurements can be sent to PC, and optional portable printer via RS232C



Model 2211

# Minimize Occupational Health Effects

## Biological Contaminants Control

Bioaerosols are compounds of living organism that include fungi, mold, bacteria, and viruses. Their size can be less than 0.1 to as large as 100 micrometers in diameter and some are known toxics. Even in low concentrations, biological contaminants can affect allergies, asthma, and overall health.

## Handheld Particle Counters

Kanomax handheld particle counters are perfect for initial assessment of indoor particulate levels. The Model 3886 measures 5 particle sizes simultaneously with optional environmental measurements, such as air velocity, temperature, and relative humidity. The Model 3887 3-channel provides instant, repeatable levels of particulates.

### Features and Benefits

- Simultaneous 5 channel particle measurements (Model 3886)
- Simultaneous 3 channel particle measurements (Model 3887)
- Handy and easy operation
- Useful tripod mount for long time monitoring applications
- Multi-functions: Particle, Air Velocity, Temp, R/H (Model 3886)

## Monitoring Toxic Gas

There are many sources of harmful airborne contaminants in buildings. The Carbon Dioxide level must be monitored and controlled. Many building materials generate VOCs (Volatile Organic Compounds). Building owners and facility managers must detect, quantify and control toxic gases and their sources.



Model 3887

## Handheld Gas Monitors

Providing high level of functionality and monitoring capability, Gas Monitors can be used portably or fixed position. The monitors are compatible with the full range of gas sensors.

### Features and Benefits

- Interchangeable sensor heads capable of measuring more than 20 types of toxic gases
- Data logging and communication with PC (\$500)
- Remote sensor capability



S200

### Examples of Optional Sensors

Ammonia: 0 - 100 ppm  
Carbon monoxide: 0 - 100 ppm  
Carbon monoxide: 0 - 1000 ppm  
Carbon dioxide: 0 - 2000 ppm  
Hydrogen: 0 - 5000 ppm  
Hydrogen Sulphide: 0 - 10 ppm  
Hydrogen Sulphide: 0 - 50 ppm  
Methane: 0 - 10000 ppm

VOC: 0 - 25 ppm  
VOC: 0 - 500 ppm  
Ozone : 0 - 0.150 ppm  
Ozone : 0 - 0.500 ppm  
Nitrogen dioxide: 0 - 0.2 ppm  
Perchloroethylene: 0 - 200 ppm  
Sulfur dioxide: 0 - 100 ppm

\* Ask Kanomax for other parameters



Sensor Head

## Portable IAQ Monitor

In order to accurately understand indoor air quality, it is necessary to simultaneously monitor multiple indoor air quality parameters. IQM 60 covers most common parameters with a single instrument.

### Features and Benefits

- Multiple measurements (Temp, Humidity, Gas, and Particle)
- Particle Monitoring for PM10, PM2.5, PM1, and TSP (Option)
- PC Configuration and Datalogging Software
- GSM Wireless Communication for Remote Monitoring (Option)



IQM 60

## Networked IAQ Monitoring Systems

The networked monitoring system is designed to real-time measure and control gas concentrations, and to communicate to a variety of hardware systems including PC and PLC.

### Features and Benefits

- Each sensor head has its own ID, which allows a "Daisy-chained" network to be created utilizing either a computer system or Programmable Logic Controller (PLC).
- Centralized control from the PC or decentralized control from individual monitors
- Specialized application specific software is available on request
- Networks of up to 256 individual monitors/transmitters can be created.



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S945



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