

Industrial Hygiene and Safety Solutions



KANOMAX

The Ultimate Measurements

Ultimate Solutions for Maintain Industrial Hygiene and Safety

Kanomax instruments are preferred by professionals that must monitor and maintain industrial hygiene to ensure occupational safety, comfort, and productivity. Our portable gas monitoring instruments provide solutions for detecting and minimizing gas exposure. Our dust monitoring instruments contribute to worker safety by providing accurate, real-time measurements of dangerous, respirable particles. Sound and vibration meters provide exposure levels of noise and vibration.



Portable Dust Monitors

Kanomax portable dust monitors are optimal tools for real-time monitoring of worker exposure to airborne contaminants, such as dust, smoke, fume, and mist. They measure particle concentrations of PM 10 and PM 2.5.



Model 3521



Model 3443

Features and Benefits

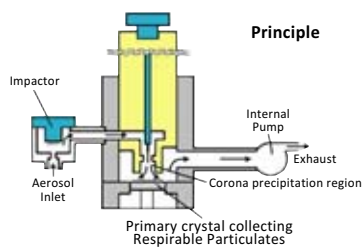
- Light scattering measurement (Model 3443)
- Precise direct mass measurement (Model 3521, 3522)
- Particle size range of 0.1 to 10 μm
- Mass concentration range of up to 10mg /m³
- Compact and light weight unit
- Capable of analog and digital output

Dust Measuring Methods

■ Piezobalance Method

An air sample enters the system, it travels through the impactor, which captures and removes larger particulates away from the sample. Smaller particulates become electrically charged and deposited on the piezo-crystal. The total mass of the deposited particulates affects the piezo-crystal's frequency. Since the change in frequency is proportional to the mass of the particulates, the actual weight of the particulates is obtained.

Since some particle matters such as oil mist absorb lasers, the Piezobalance dust monitor would be ideal (the light scattering method would not give correct measurements).



Applications:

- Monitoring milling operation
- Monitoring honing
- Monitoring boring operation

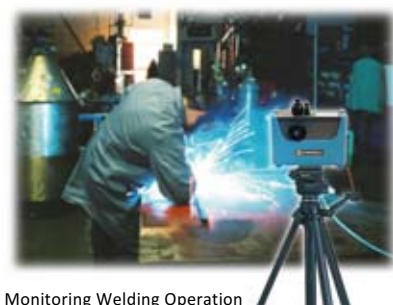


Monitoring Milling Operation

■ Light Scattering Method

When a laser hits particle matter, light scattering occurs. A dust monitor collects the amount of scattering light and calculates the mass concentration in proportion to the scattering light. Mass concentration is based on the density of particle matter, thus gravimetric sampling is required if density is unknown.

Applications for light scattering dust monitor include Indoor air quality investigations, Point source monitoring, and Personal exposure monitoring.



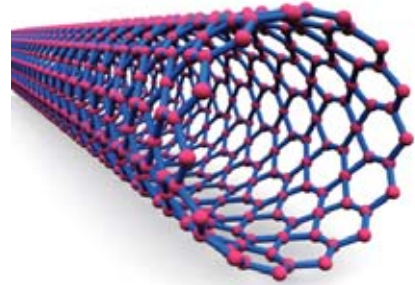
Monitoring Welding Operation



Model 3800

Handheld Nanoparticle Counter

The Model 3800 is a handheld condensation particle counter that detects ultrafine particles in various applications. With this advanced technology, users can implement nano-sized particle research in occupation and working areas.



Features and Benefits

- Particle size range of 0.015 to 1.0 μ m
- Concentration range of 0 to 100,000 particles/cm³
- Data logging and managing data with measuring software

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 (S500)
- Remote sensor capability



S200

Examples of Optional Sensors

Ammonia: 0 - 100 ppm	VOC: 0 - 25 ppm
Carbon monoxide: 0 - 100 ppm	VOC: 0 - 500 ppm
Carbon monoxide: 0 - 1000 ppm	Ozone : 0 - 0.150 ppm
Carbon dioxide: 0 - 2000 ppm	Ozone : 0 - 0.500 ppm
Hydrogen: 0 - 5000 ppm	Nitrogen dioxide: 0 - 0.2 ppm
Hydrogen Sulphide: 0 - 10 ppm	Perchloroethylene: 0 - 200 ppm
Hydrogen Sulphide: 0 - 50 ppm	Sulfur dioxide: 0 - 100 ppm
Methane: 0 - 10000 ppm	

* Ask Kanomax for other parameters



Sensor Head

Combustible Gas Leak Detector

Combustible Gas Detector is extremely useful as a general purpose tool in any environment where gasoline, propane, methane, natural gas or fuel oil is used. Applications include detecting leaks in exhaust and fuel systems, in liquid or gas fired heating systems, safety checks at propane filling stations, etc.

Features and Benefits

- MSHA Approved
- Intrinsically Safe (in Methane gas only)
- Heated Sensor Technology
- Long Life Sensor
- Automatic Calibration

Detectable Gases and Vapors

Methane	Ethylene
Gasoline	Acetone
Butane	Propane
Hydro Sulfide	Acetylene
Xylene	Hydrogen
Ethane	Toluene

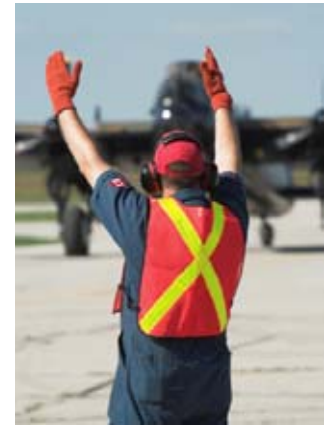




Sound Level and Vibration Level Meters

The noise levels in a work place should be carefully monitored using the correct grade of equipment. Kanomax sound level meters cover general purpose applications to precise sound level measurements.

Acquiring accurate and repeatable vibration measurements can be used for protecting workers' health and protecting your company from legal claims. Kanomax vibration meters provide assessment exposure to vibration and analyzing level of vibration.



Features and Benefits

- Small and light weight, high mobility and easy operation
- Digital values and bar graphs are displayed on backlit LCD
- Wide range of linearity 75dB eliminates switching

Handheld Heat Stress Meter

Heat-stress meter determines true heat stress temperature by accounting for air currents, relative humidity and solar load in addition to air temperature and relative humidity making this instrument ideal for athletic trainers and the sports medicine environment.

Features and Benefits

- Four measurement parameters:
 - ▶ TA (Air Temperature)
 - ▶ WBGT (Wet Bulb Globe Temperature)
 - ▶ % (Relative Humidity)
 - ▶ TG (Globe Temperature)
- Indoor and outdoor modes for applications



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