

# Handheld Condensation Particle Counter

## Model 3800

### Optimal Screening Tool for Nano Particles

In Approaches to Safe Nanotechnology, NIOSH recommends direct-reading instruments and filter sampling with lab analysis to obtain particle number, size, and shape, degree of agglomeration, and mass concentration of elemental constituents in nanoparticles. Direct reading instruments include both optical particle counters and condensation particle counters such as the Kanomax 3800.

### Applications

- Indoor Air Quality Investigation
- Occupational Health Control
- Gasket Leakage Testing
- Engine Exhaust Testing
- Filter Testing
- Aerosol Research



Checking worker exposure to airborne contaminants



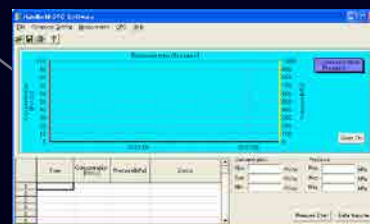
Leakage Testing



Engine Exhaust Testing

### Features & Benefits

- Particle size range: 0.015 to 1  $\mu\text{m}$
- Measuring range: 0 to 100,000 particles/ $\text{cm}^3$
- Sampling airflow: 0.7L/min
- Data logging up to 100,000 measurements
- USB interface for data transfer
- Handy and Light weight
- Weight: 3.3lbs (1.5kg)
- Power supply: 6 x AA batteries or AC adapter



Windows 7 compatible Software included



## Handheld Condensation Particle Counter Model 3800 Specifications

Measuring Particle Size		0.015 to 1µm
Concentration Range		0 to 100,000 particles/cm <sup>3</sup>
Counting Efficiency		50nm: 100±20% (15nm: More than 50%)
Zero Count Level		Less than 1 particle/cm <sup>3</sup>
Flow Rate		Aerosol Flow: 100cc/min Total Flow: 700cc/min
Alcohol Supply	Type	100% Reagent Grade Isopropyl Alcohol
	Hours per Fill	5 hours at 73°F (23°C)
Absolute Pressure Sensor		150 to 1,150 hPa
Mode of Measurements		Repeat / Program / Counter
Display		Built-in LCD
Interface		USB, Printer Output Port
Data Storage		10,000 samples
Power Supply	Type	AA Alkaline or Ni-MH Battery / AC Adapter (AC 100 - 240V)
	Operating Time	5 hours (by Alkaline Battery) / 8 hours (by Ni-MH Battery)
Operating Environment		Ambient Temperature range: 50 to 95 °F (10 to 35 °C)
Dimensions		W 4.7 x D 5.1 x H 11.0 inches (120 x 130 x 280 mm)
Weight		3.3 lbs (1.5 kg)
Warranty		1 year
Standard Accessories		Operation Manual, Carrying Case, AC Adapter, Zero Filter PC Community Cable, Data processing software, and Calibration certificate
Optional Accessories		Thermal Printer, Printer Cable, Sampling Probe

Specifications are subject to change without notice.



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