



# 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.

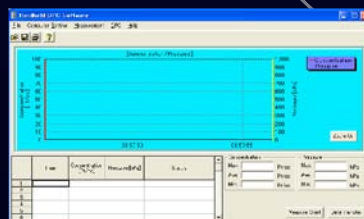
## Applications

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



## Features & Benefits

- Particle size range: 0.015 to 1  $\mu$  m
- Measuring range: 0 to 100,000 particles/cm<sup>3</sup>
- Sampling airflow: 0.7L/min
- Data logging up to 100,000 measurements
- Simple to download the data to your PC via USB
- Extension sampling probe is available
- Handheld and Light weight



Windows 7  
Compatible Software



Extension probe is useful for  
hard-to-reach sampling points

## Handheld Condensation Particle Counter Model 3800 Specifications

Measuring Particle Size	0.015 to 1 $\mu$ m	
Concentration Range	0 to 100,000 particles/cm <sup>3</sup>	
Counting Efficiency	50nm: 100 $\pm$ 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 (128 x 64 dots)	
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	Ni-MH Battery, Battery Charger, Thermal Printer, Printer Cable, Sampling Probe	

Specifications are subject to change without notice.