

# 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



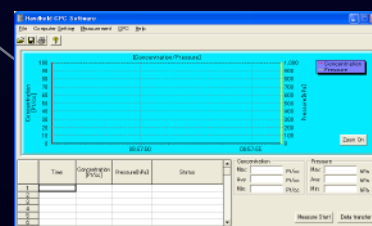
Engine Exhaust Testing

## 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



Sampling probe for hard-to-reach locations



Windows 7 compatible Software included

# Handheld Condensation Particle Counter Model 3800 Specifications

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

Specifications are subject to change without notice.



**KANOMAX**  
The Ultimate Measurements

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