

# Condensation Particle Counter

## Optimal Handheld Screening Tool for Nano-size Particles

- **Measures particles as small as 15 nanometers (0.015 micron)**
- **Concentration range of 0 to 100,000 particles/cm<sup>3</sup>**
- **Lightweight for easy portability and handling**
  - Only 3.3 pounds (1.5 kg)
- **Easy-to-read LCD**
- **Programmable datalogging capabilities**
- **Easy data download to PC via USB**
- **Windows-based measuring software included**
  - Simultaneously receive data and display/graph in real time
  - Export data as text
- **Alkaline battery or AC power**
  - Rechargeable NiMH option available

The handheld Kanomax 3800 Condensation Particle Counter (CPC) is an ideal tool for indoor environmental quality and occupational health applications (see *Applications on reverse side*). With a measuring range of 15 nanometers to >1 micron and a flow rate of 700 ml/min, the 3800 CPC is sensitive enough to detect nano-size particles in a concentration range of 0 to 100,000 particles per cubic centimeter. The 3800 CPC operates up to five hours without refilling. View measurements on the large LCD display while data records in internal memory. Download data to a PC using the included Windows®-based software and cable. Export data into standard calculation software such as Microsoft® Excel® for easy graphing and reporting.



3800 Handheld Condensation Particle Counter

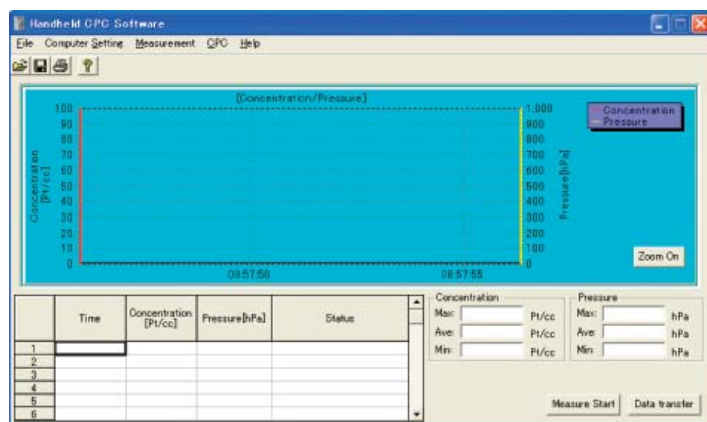


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## Optimal Handheld Screening Tool for Nanoparticles

### About the Software

The 3800 CPC includes Windows-based measuring software. Simultaneously receive data and display/graph in real time. Measurement data can be saved as text for export into standard calculation software such as Microsoft Excel. The software is compatible with Windows XP, Vista, and 7 (32 and 64 bit).



### SKC Limited Warranty and Return Policy

SKC products are subject to the SKC Limited Warranty and Return Policy, which provides SKC's sole liability and the buyer's exclusive remedy. To view the complete SKC Limited Warranty and Return Policy, go to <http://www.skcinc.com/warranty.asp>.



### 3800 CPC Applications

- Indoor air quality investigations
- Occupational health control
- Nanoparticle assessment
- Aerosol research
- Filter testing
- Environmental testing for:
  - Diesel engine exhaust
  - Gasket leakage

### Performance Profile

- Particle Size Measurement:** 0.015 to 1  $\mu\text{m}$
- Concentration Range:** 0 to 100,000 particles/ $\text{cm}^3$
- Counting Efficiency:** 50 nm: 100%  $\pm$  20% (15 nm: more than 50%)
- Coincidental Loss:** < 5% at 100,000 particles/ $\text{cm}^3$
- Zero Count Level:** < 1 count per 5 minutes
- Flow Rate:** *Aerosol flow:* 100 ml/min  
*Total flow:* 700 ml/min
- Alcohol Supply:** *Type:* 100% reagent-grade isopropyl alcohol  
*Hours per fill:* 5 hours at 73 F (23 C)
- Absolute Pressure Sensor:** 150 to 1150 hPa
- Mode of Measurements:** Repeat/Program/Counter
- Display:** Built-in LCD (128 x 64 dots)
- Interface:** USB
- Datalogging:** 10,000 measurements
- Power Supply:** *Type:* 6 AA-size alkaline batteries (included), NiMH available  
AC adapter (100-240 V, included)  
*Operating time:* Approximately 5 hrs with alkaline; approximately 8 hrs with NiMH

### Environmental

- Operation Condition:** *Ambient temperature range:* 50 to 95 F (10 to 35 C)
- Dimensions:** 11 x 4.7 x 5.1 in (28 x 12 x 13 cm)
- Weight:** Approximately 3.3 lbs (1.5 kg) without batteries

### Ordering Information

Description	Cat. No.
<b>3800 Condensation Particle Counter</b> includes instrument with 6 AA-size alkaline batteries, AC adapter (100-240 V), zero filter, USB cable, software, hard carry case, calibration certificate, and instructions	<b>745-3800</b>
<b>Accessories</b>	
<b>Printer</b>	<b>745-3801</b>
<b>Printer Cable</b>	<b>745-3802</b>