

Hand-held Condensation Particle Counter

Optimal Screening Tool for Nanoparticles

- Measures particles as small as 15 nanometers (0.015 micron)
- Concentration range of 0 to 100,000 particles/cm³
- 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 and AC power options

The hand-held 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 nanoparticles in a concentration range of 0 to 100,000 particles per cubic centimeter. The 3800 CPC works up to 5 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. Export data into standard calculation software such as Microsoft® Excel® for easy graphing and reporting.



3800 Hand-held Condensation Particle Counter

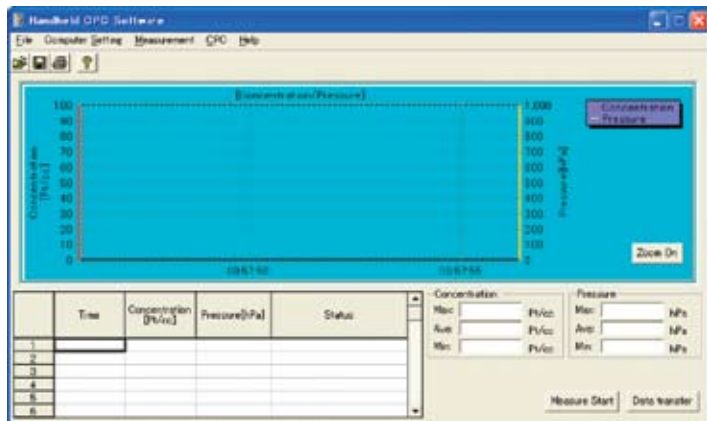


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About the Software

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 requires Windows® 2000 or XP, a Pentium-equivalent CPU or faster, 64 MB RAM or higher, 40 MB free hard-disk space, USB port, and a CD-ROM drive.



3800 CPC Applications

- Indoor air quality investigations
- Aerosol research
- Environmental testing for:
 - Diesel engine exhaust
 - Gasket leakage

Performance Profile

- Particle Size Measurement:** 0.015 to >1 µm
- Concentration Range:** 0 to 100,000 particles/cm³
- Counting Efficiency:** 50 nm: 100% ± 20% (15 nm: more than 50%)
- Zero Count:** Less than 1 particle/cm³
- Flow Rate:** *Aerosol Flow:* 100 ml/min
Total Flow: 700 ml/min
- Alcohol Supply:** *Type:* 99.5% 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
- Buffer memory:** 10,000 data
- Power Supply:** *Type:* 6 AA-size alkaline batteries (included)
AC adapter (100 to 240 V – included)
- Operating Time:** Approximately 5 hrs with alkaline
- 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:** 3.3 lbs (1.5 kg) – without batteries

Ordering Information

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

