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PCE-MPC 10 Air Quality Monitoring Particle Counter

Portable handheld device for monitoring particulate matter (PM) concentrations in the air / 2.5 μm and 10 μm particle sizes / Measures air temperature and relative humidity / Internal memory stores up to 5000 date-and-time-stamped data sets / Integrated data logger with adjustable sampling time.

PCE-MPC 10 is a portable handheld particle counter used to monitor particulate matter (PM) concentrations in the air. Designed to aid in indoor air quality (IAQ) assessments, this particle counter also measures air temperature and relative humidity (RH). The particle counter can be powered either by the rechargeable battery or the USB port. The USB port also is used to charge the battery. The particle counter takes measurements even while the battery is charging, allowing for uninterrupted IAQ monitoring. The integrated data logger has an adjustable sampling time of 30 seconds, 1 minute, 2 minutes or 5 minutes, while the internal memory stores up to 5000 date-and-time-stamped data sets.

The particle counter displays all measurements simultaneously on the device's 2" full-color LCD screen. Temperature units can be shown in either degrees Celsius ($^{\circ}\text{C}$) or Fahrenheit ($^{\circ}\text{F}$). A scale below the measured values provides a visual warning via a band of colors increasing from green (safe) to violet (extreme danger). This visual color-coding system makes it easy to recognize when PM concentration levels become dangerous, allowing for quick action.

When inhaled, PM 2.5 and PM 10 particles can settle deep into the lungs and result in damaging health effects. Since the PCE-MPC 10 particle counter monitors PM 2.5 and PM 10 particles, the device has many practical health and safety applications. Heating, ventilation and air conditioning (HVAC) technicians use PM 2.5 and PM 10 particle counters for HVAC system performance and filtration audits. In addition, industrial hygienists and workplace safety professionals rely on PM 2.5 and PM 10 particle counters when evaluating occupational health and safety risks related to hazardous and combustible dust.





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FEATURES

- Particulate matter (PM) channels: PM 2.5, PM 10
- Particle sizes (in micrometers): 2.5 μm , 10 μm
- Temperature measuring range: 0 ... +50 $^{\circ}\text{C}$ / +32 ... +122 $^{\circ}\text{F}$
- Humidity measuring range: 0 ... 100 % RH
- 2" full-color LCD with user-friendly graphics
- 220 x 176 pixel display resolution
- Displays temperature in degrees Celsius ($^{\circ}\text{C}$) or Fahrenheit ($^{\circ}\text{F}$)
- Powered by rechargeable battery or AC power (via USB port)
- Portable handheld design for indoor air quality (IAQ) monitoring in the field and on the go
- Includes a stand for attaching to the thread on the back of the device
- Features an internal memory for storing up to 5000 data sets
- Saved data is stamped with the time and date
- Takes measurements even while the battery is charging
- Integrated data logger with adjustable sampling time: 30 seconds, 1 minute, 2 minutes or 5 minutes
- Programmable alarm and automatic power-off battery-saving functionality
- Backed by a 2-year warranty against manufacturer defects

SCOPE DELIVERY

- 1 x PCE-MPC 10 air quality monitoring particle counter
- 1 x stand
- 1 x USB cable
- 1 x user manual





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□ General device specifications

Display	2" full-color LCD
Display resolution	220 x 176 pixels
Power supply	Rechargeable battery or USB port
Charging	Takes measurements even while the battery is charging
Sampling time	Adjustable interval: 30 seconds, 1 minute, 2 minutes or 5 minutes
Memory	Internal, stores up to 5000 date-and-time-stamped data sets
Data interface	USB port

□ Particle specifications

Particulate matter channels	PM 2.5 / PM 10
Particle sizes (in micrometers)	2.5 μm , 10 μm
Particle concentrations	0 ... 2000 $\mu\text{g} / \text{m}^3$
Resolution	1 $\mu\text{g} / \text{m}^3$

□ Temperature specifications

Temp. measuring range	0 ... +50 °C / +32 ... +122 °F
Accuracy	$\pm 1^\circ$
Resolution	0.1 °
Units	Degrees Celsius (°C) or Fahrenheit (°F)

Relative humidity (RH) specifications

Humidity measuring range	0 ... 100 % RH
Accuracy	$\pm 3.5\%$ RH (20 ... 80 % RH) $\pm 5\%$ RH (0 ... 20 % RH / 80 ... 100 % RH)
Resolution	0.1 % RH

