

Air Sampler PCE-MPC 10



PCE-MPC 10 Air Sampler

Portable handheld particle counter 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 air sampler or 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 (°C) or Fahrenheit (°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.

- ▶ Particulate matter (PM) channels: PM 2.5, PM 10
- ▶ Particle sizes (in micrometers): 2.5 µm, 10 µm
- ▶ Temperature measuring range: 0 ... +50 °C / +32 ... +122 °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 (°C) or Fahrenheit (°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

Subject to change

Specifications

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

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|---------------------------------|---------------------------------------|
| 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 | ± 3.5 % RH (20 ... 80 % RH) ± 5 % RH (0 ... 20 % RH / 80 ... 100 % RH) |
| Resolution | 0.1 % RH |

Subject to change