



## CEM DT-9883M 6-in-1 Air Particle Counter, with TFT Color LCD display & Camera function

(Particle Counter, Temperature and  
Humidity Measurement  
and Gas (HCHO, CO<sub>2</sub>, TVOC) Detectors)



SKU: CEMDT9883MBK  
Manufacture warranty period: 12 months  
Country of Origin: China

### Introduction:

CEM DT-9883M Air Particle Counter + Gas Detector provides fast, easy and accurate readings for particle count. It can measure **Mass Concentration, GAS Formaldehyde (HCHO), Carbon Dioxide (CO<sub>2</sub>), TVOC** detection, air temperature & relative humidity &, most surface temperature measurements.

The CEM DT-9883M Air Particle Counter has many functions. With it is possible to determine the number of particles in the size of 0.3, 2.5 and 10  $\mu\text{m}$ . In addition to measuring the particles, the fine dust it can also measure the PM 2.5 and PM 10 mass concentration. The mass concentration of the fine dust determines the weight of the particles in one cubic metre.

In addition, the CEM DT-9883M can also determine the formaldehyde content in ppm. During this HCHO measurement, the temperature, the ambient humidity and the dew point are determined and displayed by it. As a further important feature, it can all store data and it is therefore possible to evaluate all measured values after a measurement.

It is the ideal instrument for environmental safety and energy saving surveys.





## Features

- Measures suspended particle concentration in the air of the weight method (PM2.5/PM10)
- 2.8" TFT 320x240 pixels Color LCD display
- Images (JPEG) & Video(3GP)
- Simultaneously measure and display 6 channel of particle sizes, measure particle size down to 0.3  $\mu\text{m}$
- GAS (HCHO, CO<sub>2</sub>, TVOC) detectors
- Air temperature and humidity, Dew point & Wet bulb temperature
- Max, Min, DIF, AVG record, Date/time setup controls, High and low alarm
- Adjustable emissivity & Trigger lock
- MicroSD (MAX. use 8GB) memory card, USB interface
- Auto Power Off
- Selectable sample time, count data, programmable delay
- Store 5000 records of date, time, counts, relative humidity, temperature, sample volumes, alarms and location label
- Language selection English, Chinese, French, German, Spanish

## Standard:

- ASTM F649-01
- ASTM F328-98
- EN 61326
- JIS B9921
- GB 16292

## Specifications:

- **Particle Counter**
  - Channel: 0.3, 0.5, 1.0, 2.5, 5.0, 10 $\mu\text{m}$
  - Flow Rate: 0.1ft<sup>3</sup>(2.83L/min) controlled by internal pump
  - Count Modes: Totalize, Differential, Concentration
  - **Mass Concentration Channel:**
    - **PM2.5: 0~500  $\mu\text{g}/\text{m}^3$**
    - **PM10: 0~500  $\mu\text{g}/\text{m}^3$**
  - Coincidence Loss: 5% at 2,000,000 particles per ft<sup>3</sup>
- **Air Temperature Measure**
  - Air Temp
    - Range: 0 to 50°C / 32 to 122°F;
    - Basic Accuracy:  $\pm 0.5^\circ\text{C}/1^\circ\text{F}$
  - Humidity
    - Range: 0 to 100%RH;
    - Basic Accuracy:  $\pm 2.5\% \text{RH}$ (20%~80%RH)
  - Dew Point Temp.
    - Range: -30~100°C / -22~199°F
  - Wet Bulb Temp.
    - Range: 0~80°C/ 32~176°F
- **GAS Detectors**
  - HCHO (methanal)
    - Range: 0.01~5.00ppm
    - Basic Accuracy:  $\pm 5\% \text{F.S}$
  - CO<sub>2</sub> (carbon dioxide)
    - Range: 0~9999ppm
    - Basic Accuracy:  $\pm 75 \text{ppm} \pm 5\%$  of reading
  - TVOC
    - Range: 0.00 ~ 10mg/m<sup>3</sup>
    - Accuracy:  $\pm 5\% \text{F.S}$



### Package includes:

- Particle Counter
- User Manual
- USB Cable
- Zero Count Filter
- 7.4 Li-ion Battery
- AC Adapter
- Mini Tripod
- Carrying case
- **Manufacturer's Calibration Test Report**

