



The device provides fast, easy and accurate readings for particle count. It can measure Mass Concentration, Formaldehyde Gas (HCHO), Carbon Dioxide (CO₂), TVOC, Air Temperature and Relative Humidity.

It is possible to determine the number of particles up to the size of 0.3, 2.5 and 10µm. In addition to measuring the particles of fine dust, it can also measure PM 2.5 and PM 10 mass concentration.

The CEM DT-9883M can also determine the Formaldehyde content in PPM. During HCHO measurement, the temperature, the ambient humidity and the dew point are also determined and displayed.

Internal Data Storage makes it possible to evaluate all measured values after a series of measurements, making it the ideal instrument for environmental safety and energy saving surveys.

DT-9883M

6-in-1 PARTICLE COUNTER WITH MULTI-GAS ANALYSER

- | 2.8" TFT 320×240 pixels Colour LCD display
- | Micro-SD (max. 8GB) memory card
- | Images (jpeg) and Videos (3GP)
- | Air temperature and Humidity
- | Dew-Point & Wet Bulb temperature
- | Simultaneously measure and display 6 channel of particle sizes
- | Cumulative, Differential and Concentration measurements
- | Formaldehyde (HCHO) & Carbon Dioxide (CO₂) detectors
- | TVOC Detector
- | Max, Min, DIF, AVG records, Date & Time setup control
- | MicroSD (MAX. use 8GB) memory card, USB interface
- | Store 5000 records
- | Selectable sample time, count data, programmable delay

DT-9883M

6-in-1 Particle Counter with Multi-Gas Analyser

General Specifications

PARTICLE COUNTER	
Channels	0.3, 0.5, 1.0, 2.5, 5.0, 10 μm
Flow Rate	0.1ft ³ (2.83L/min)
Counting Efficiency	50% at 0.3 μm ; 100% for particles >0.45 μm
Coincidence Loss	5% at 2,000,000 particles per ft ³
Data Storage	5000 Sample Records (MicroSD Card)
Count Modes	Cumulative, Differential, Concentration

MASS PARTICLE COUNTER	
PM 2.5	0~2000 $\mu\text{g}/\text{m}^3$
PM 10	0~2000 $\mu\text{g}/\text{m}^3$

HCHO	
Range	0.01~5.0PPM
Basic Accuracy	$\pm 5\%$ F.S.
Display resolution	0.01ppm

TVOC	
Range	0.01~9.99PPM
Basic Accuracy	$\pm 5\%$ F.S.
Display resolution	0.01ppm

CO2	
Range	0~9999PPM
Basic Accuracy	$\pm 5\%$ ± 75 ppm
Display resolution	1ppm

AIR TEMPERATURE	
Range	0°C to 50°C (32°F to 122°F)
Accuracy	$\pm 0.5^\circ\text{C}$ (0.9°F) 10°C to 40°C $\pm 1.0^\circ\text{C}$ (1.8°F) others
Dewpoint Temp. Range	0°C to 50°C (32°F to 122°F)
Dewpoint Temp. Accuracy	$\pm 0.5^\circ\text{C}$ (0.9°F) 10°C to 40°C $\pm 1.0^\circ\text{C}$ (1.8°F) others

RELATIVE HUMIDITY	
Range	0 to 100% RH
Accuracy	$\pm 3\%$ RH 40 to 60% $\pm 3.5\%$ RH 20 to 40% & 60% to 80% $\pm 5\%$ RH 0 to 20% & 80% to 100%



Accessories

User Manual, USB Cable, Zero Count Filter, 7.4 Li-ion Battery AC Adapter, Tripod, Carrying Case, Manufacturer's Calibration Test Report

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