





5110 Particle Counter

5200 Particle Mass Counter

FEATURE:

- Particle mass & particle counter in a single handheld unit. **(5200)**
- Six mass ranges and eight particle sizes. **(5200)**
- User K-factors setting for special particulate with different densities. **(5200)**
- Six particle sizes. **(5110)**
- Integrated temperature/humidity sensor (no need for external add-on).
- Flow rate 2.83 L/minute (0.1 CF/minute).
- Rechargeable battery provides up to 4 hours of continuous operation (charge time 2 hours).
- Buffer function allows storing and redisplay of up to 500 measurement data sets.
- SD storage device.

APPLICATIONS:

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| <input type="checkbox"/> Monitoring Cleanrooms | <input type="checkbox"/> HVAC Applications |
| <input type="checkbox"/> Controlled Environments | <input type="checkbox"/> Filter Testing |
| <input type="checkbox"/> Indoor Air Quality | <input type="checkbox"/> Mining & Ore Processing |
| <input type="checkbox"/> Hospitals & Clinics | <input type="checkbox"/> Emission Sourcing |
| <input type="checkbox"/> Process Control | <input type="checkbox"/> Monitoring Growing Rooms |



SPECIFICATIONS

Optical system	Sideway light-scattering method
Light source	Laser diode
Laser product class	Class 1, IEC 60825-1 / EN 60825-1
Mass: (5200)	
Mass concentration ranges	PM1, PM2.5, PM4, PM7, PM10, and TSP
Concentration range	0 to 1000 µg/m ³
Sample time	1 minute (2.83 L / min)
Particle: (5110 & 5200)	
Particle size: 6 channels (5110)	0.3µm, 0.5µm, 1.0µm, 2.0µm, 5.0µm, 10µm
Particle size: 8 channels (5200)	0.5µm, 0.7µm, 1.0µm, 2.5µm, 4.0µm, 5.0µm, 7.0µm, 10µm
Counting Efficiency	50% @0.3µm; 100% for particles > 0.45µm (per JIS B9921:1997)
Sample flow rate	2.83 L / min
Maximum particle concentration	105,900 particles / L (coincidence loss max. 5%)
Measurement time	6 s. (0.01CF), 21 s. (1L), 1 min. (0.1 CF, 2.83L), 3 min. 32 s (10L), 10 min. (1 CF, 28.3L), any length (MANUAL), any length (1 s. to 59 min. 59 s.)
Relative Humidity	±7%, 20% to 90% non-condensing
Temperature	±3°C, 10°C to 40°C (50°F to 104°F)
Buffer function	Store and recall values for up to 500 measurements
PC interface	USB interface
Temperature / humidity measurable range	10°C to 40°C, 20% to 90%RH (approximate)
Power requirements	Built-in battery or AC adapter
Battery	Rechargeable Lithium-ion (Li-ion) battery. Charged from supplied AC adapter when power is ON (charge time 2 hours).
AC adapter	Output voltage : DC12V, 3A
Dimensions and weight	212(L) x120(W) x60(H)mm / Approx. 930g
Supplied Accessories	Users manual, AC adapter, USB connector, Carrying case.

