

TES

TES-5200

Particle Mass Counter

Product Features

- Particle mass & particle counter in a single handheld unit.



- Six mass ranges and eight particle sizes.
- User K-factors setting for special particulate with different densities.
- 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.

Optical system	Sideway light-scattering method
Light source	Laser diode
Laser product class	Class 1, IEC 60825-1 / EN 60825-1
Mass:	
Mass concentration ranges	PM1, PM2.5, PM4, PM7, PM10, and TSP
Concentration range	0 to 1000 $\mu\text{g}/\text{m}^3$
Sample time	1 minute (2.83 L / min)
Particle:	
Particle size (8 channels)	0.5 μm , 0.7 μm , 1.0 μm , 2.5 μm , 4.0 μm , 5.0 μm , 7.0 μm , 10 μm
Counting Efficiency	100% for particles > 0.45 μm 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	$\pm 7\%$, 20% to 90% non-condensing
Temperature	$\pm 3^\circ\text{C}$, 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	212L x 120W x 60H)mm / Approx. 930g
Supplied Accessories	Users manual, AC adapter, USB connector, Carrying case.