

TES 5110 Particle Counter

FEATURE:

- Six particle size channels : 0.3µm, 0.5µm, 1.0µm, 2.0µm, 5.0µm, 10µm
- 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 2.5 hours).
- Buffer function allows storing and redisplay of up to 500 measurement data sets.
- SD storage device.

APPLICATIONS:

- Monitoring clean-rooms, manufacturing processes and pharmaceutical production.
- Indoor Air Quality (**IAQ**) monitoring.
- Monitoring gowning rooms.
- Testing filter seals.
- Locating particle contamination sources.
- Monitoring particle size distributions.

SPECIFICATIONS

Optical system	Sideway light-scattering method
Light source	Laser diode
Laser product class	Class 1, IEC 60825-1 / EN 60825-1
Sample flow rate	2.83 L / min
Particle size (6 channels)	0.3µm, 0.5µm, 1.0µm, 2.0µm, 5.0µm, 10µm
Counting Efficiency	50% @0.3µm; 100% for particles > 0.45µm (per JIS B9921:1997)
Relative Humidity	±7%, 20% to 90% non-condensing
Temperature	±3°C, 10°C to 40°C (50°F to 104°F)
Maximum particle concentration	70,000 particles / L (coincidence loss max. 5%)
Measurement time	6 s. (0.01CF), 21 s. (1 L), 1 min. (0.1 CF, 2.83 L), 3 min. 32 s (10L), 10 min. (1 CF, 28.3L), any length (MANUAL), any length (1 s. to 59 min. 59 s.)
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 2.5 hours).
AC adapter	Output voltage : DC12V, 3A
Dimensions and weight	218(L)×110(W)×67(H)mm / Approx. 875g
Supplied Accessories	Instruction manual, AC adapter, Power cord, USB cable, Zero count filter, Hardshell carrying case.