



TES

Reliable in Quality

TES-5110 Particle Counter

FEATURES:

- 6 particle size channels : 0.3 μ m, 0.5 μ m, 1.0 μ m
2.0 μ m, 5.0 μ m, 10 μ m
- Temperature and Humidity Reading
- 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 Card Memory)
- SD storage device
- Password protection for measurement settings.

APPLICATIONS:

- Monitoring cleanrooms.
- Indoor air quality investigations.
- Monitoring growing 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)	0.3 μ m, 0.5 μ m, 1.0 μ m, 2.0 μ m, 5.0 μ m, 10 μ m
Counting Efficiency	50% @0.3 μ m; 100% for particles > 0.45 μ m (per JIS B9921:1997)
Relative Humidity	\pm 7%, 20% to 90% non-condensing
Temperature	\pm 3 $^{\circ}$ C, 10 $^{\circ}$ C to 40 $^{\circ}$ C (50 $^{\circ}$ F to 104 $^{\circ}$ 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 $^{\circ}$ C to 40 $^{\circ}$ C, 20% to 90%RH (approximate)
Power requirements	Built-in battery or AC adapter
Battery	Rechargeable nickel metal hydride (Ni-MH) battery. Charged from supplied AC adapter when power is ON (charge time 2 hours).
AC adapter	Input voltage : 100 to 240 V AC, 50/60 Hz
Dimensions and weight	212(L) \times 120(W) \times 60(H)mm / Approx. 930g
Supplied Accessories	Users manual, AC adapter, USB connector, Carrying case.

Specifications subject to change without notice.

TES

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