



# Airborne Particle Counter **KC-22A**

**0.1  $\mu\text{m}$ , compact and lightweight, high output,  
uses optical system with excellent stability**

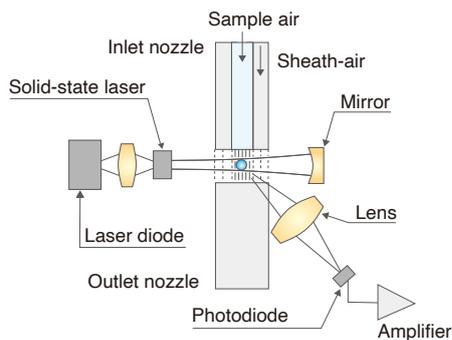


- Compatible with JIS B 9921: 1997
- Diode pumped solid state laser assures exceptional durability
- Equipped with RS-232C interface as standard, enabling automatic computer measurement
- Printer output of measurement results is possible (Printer available as option)

## Specifications [KC-22A]

Optical system	Light-scattering method
Light source	Diode pumped solid state laser (wavelength 1 064 nm), open-cavity type
Laser diode	Wavelength 800 nm, rated output power 1 W
Laser medium	Nd: YVO4
Laser product class	Class 1, IEC 60825-1
Light detector	Photodiode
Air flow method	Purified sheath air envelops sample air coaxially
Flow rate	2.83 L/min
Calibration	With polystyrene latex (PSL) particles (refractive index 1.6) in clean air
Minimum particle size	0.1 μm (with PSL particles of refractive index 1.6)
Size range (5 channels)	≥0.1 μm, ≥0.15μm, ≥0.2 μm, ≥0.3 μm, ≥0.5 μm
Maximum particle number concentration	10 000 particles/L (coincidence loss 5 %)
False countrate	One count or less per 5 minutes
Measurement modes	
Manual measurement mode	After being started, measurement continues until a stop command given
Automatic measurement mode	After being started, measurement continues for the preset measurement time
Measurement time	1 to 600 sec
HOLD	Measurement value retained until start of next measurement
REPEAT	After completion, measurement is automatically repeated after pause intervals of about 10 seconds
Numeric display	Particle count (max. 6 digits), alarm level setting, measurement time, protect, error
Input / Output connectors	
EXT terminal	Test I/O terminal
Alarm terminal	ALARM 1 terminals are shorted by relay contact when alarm occurs (max. contact load: 30V DC, 1 A) Alarm level: 1 to 1 000 and alarm off
Serial terminal	RS-232C interface
Environmental conditions for operation	+15 to +35 °C, less than 85 % RH (no condensation)
Power	100 V AC ±10 %, 50/60 Hz, Approx. 80 VA
Dimensions and weight	185 (H) x 155 (W) x 330 (D) mm (excluding protrusions), Approx. 7.5 kg
Accessories	Sampling pipe x 1, Sampling tube (2 m) x 1 Filter x 1, Power cord (for use in Japan, 2.5 m) x 1

## Principle of sensor optical system



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\* Specifications subject to change without notice.

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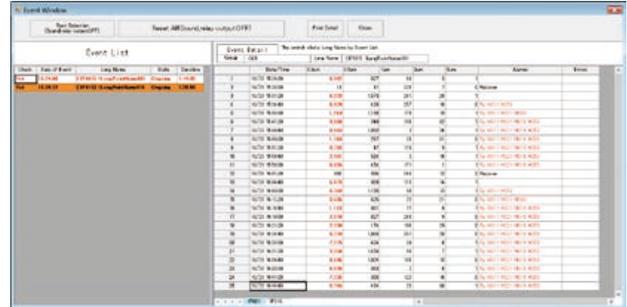
## RP Monitor Evo10 K1701 Ver.2

Option

Used for controlling particle counters to regulate the start/end of measurement and turn the light source/built-in pump on and off  
Measurement time, period, number of measurements, alarm, and conversion settings

- Allows control of up to 8 particle counters in serial mode, using 8 ports.
  - Communication cable (CC-61A/63A) Option.

Operating system: Microsoft Windows 10 Pro 64 bit / 11 Pro 64 bit



Sample display

## Printer KP-06A

Connect to control particle counter.  
Repeats the set number of measurement, calculate and prints the average results.



## Specifications

Particle size ranges	Maximum 6 ranges (depending on particle counter)
Measuring results printout items	Date / time, Count for each size range (total only, or single and total values)
Repeated measurement	1 time to 99 times
Usable paper type	Thermal paper TP-08 Lint-free thermal paper TP-10 (58 mm x 30 m)
Power	100 V to 240 V AC, 50/60 Hz, Approx. 20 VA
Dimensions and weight	Approx. 66 (H) x 170 (W) x 242 (D) mm (without protruding parts), Approx. 2.5 kg
Option	Interface cable CC-61A, Thermal paper TP-08 Lint-free thermal paper TP-10