

Airborne Particle Counter

0.1 μ m, compact and lightweight, high output, uses optical system with excellent stability



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 μ m (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
Μ	laximum particle	10 000 particles/L (coincidence loss 5 %)
number concentration		
F	alse countrate	One count or less per 5 minutes
Μ	leasurement modes	
	Manual measurement	After being started, measurement continues until a stop
	mode	command given
	Automatic measurement	After being started, measurement continues for the
	mode	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
In	put / 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
E	nvironmental	+15 to +35 °C, less than 85 % RH (no condensation)
conditions for operation		
Ρ	ower	100 V AC ±10 %, 50/60 Hz, Approx. 80 VA
Dimensions and		185 (H) x 155 (W) x 330 (D) mm (excluding protrusions),
weight		Approx. 7.5 kg
Accessories		Sampling pipe \times 1, Sampling tube (2 m) \times 1
		Filter \times 1, Power cord (for use in Japan, 2.5 m) \times 1

Factory options	D/A converter interface (KZ-25L)
	Outputs particle count of the selected channel converted to
	4mA to 20 mA DC current
	Range: Selection of one of the following:
	0 to 10, 0 to 100, 0 to 1 000, 0 to 10 000, 0 to 100 000
	0 to 16, 0 to 256, 0 to 4 096, 0 to 40 960, 0 to 409 600

Principle of sensor optical system

Distributed by:



RP monitor EVO K0505 Ver. 2

Option

Used for controling 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

 This software can monitor the same number of particle counters to serial ports when it is installed on a computer that can detect multiple serial ports (COM ports).

Supported OS: Microsoft Windows XP, 7 (32 bit)



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

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