

Airborne Particle Counter

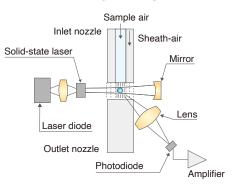
0.08 µm, optimal for hard disk or spindle motor dust inspections



Specifications[KC-22B]

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Optical system		Light-scattering method					
Li	ght source	Diode pumped solid state laser (wavelength 1064 nm), open-cavity type					
	Laser diode	Wavelength 800 nm, rated output power 1 W					
	Laser medium	Nd: YVO4					
La	aser product class	Class 1, IEC 60825-1					
Li	ght detector	Photodiode					
A	ir flow method	Purified sheath air envelops sample air coaxially					
F	low rate	300 mL/min					
С	alibration	With polystyrene latex (PSL) particles (refractive index 1.6) in clean air					
Μ	inimum particle size	0.08 μ m (with PSL particles of refractive index 1.6)					
Si	ze range (5 channels)	≥0.08 µm, ≥0.1µm, ≥0.2 µm, ≥0.3 µm, ≥0.5 µm					
Μ	aximum particle	100 000 particles/L (coincidence loss 5 %)					
ทเ	umber concentration						
F	alse countrate	One count or less per 5 minutes					
Μ	easurement 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					
Ν	umeric 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 1000 and alarm off					
	Serial terminal	RS-232C interface					
Er	nvironmental	+15 $^{\circ}\text{C}$ to +35 $^{\circ}\text{C},$ less than 85 % RH (no condensation)					
СС	onditions for operation						
Ρ	ower	100 V to 240 V AC, 50/60 Hz, Approx. 90 VA					
D	imensions and	185 (H) \times 155 (W) \times 330 (D) mm (excluding protrusions),					
w	eight	Approx. 7 kg					
A	ccessories	Sampling pipe \times 1, Sampling tube (2 m) \times 1					
		Filter \times 1, Power cord (for use in Japan, 2.5 m) \times 1					

Principle of sensor optical system



RP Monitor Evo10 K1701 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

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

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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	Thermal paper TP-08					
	Lint-free thermal paper TP-10 (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,					
	Thermal paper TP-08					
	Lint-free thermal paper TP-10					

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* Specifications subject to change without notice.

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