

Airborne Particle Counter **KC-22B**

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



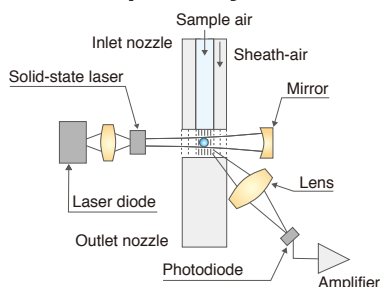
- Compact and lightweight, high output, uses optical system with excellent stability
- Diode pumped solid state laser assures exceptional durability
- Equipped with RS-232C interface as standard, enabling automatic computer measurement
- Printer output of measurement results is possible (Printer available as option)

Specifications [KC-22B]

Optical system	Light-scattering method
Light 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
Laser product class	Class 1, IEC 60825-1
Light detector	Photodiode
Air flow method	Purified sheath air envelops sample air coaxially
Flow rate	300 mL/min
Calibration	With polystyrene latex (PSL) particles (refractive index 1.6) in clean air
Minimum particle size	0.08 μm (with PSL particles of refractive index 1.6)
Size range (5 channels)	$\geq 0.08 \mu\text{m}$, $\geq 0.1 \mu\text{m}$, $\geq 0.2 \mu\text{m}$, $\geq 0.3 \mu\text{m}$, $\geq 0.5 \mu\text{m}$
Maximum particle number concentration	100 000 particles/L (coincidence loss 5 %)
False count rate	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 1000 and alarm off
Serial terminal	RS-232C interface
Environmental conditions for operation	+15 °C to +35 °C, less than 85 % RH (no condensation)
Power	100 V to 240 V AC, 50/60 Hz, Approx. 90 VA
Dimensions and weight	185 (H) × 155 (W) × 330 (D) mm (excluding protrusions), Approx. 7 kg
Accessories	Sampling pipe × 1, Sampling tube (2 m) × 1 Filter × 1, Power cord (for use in Japan, 2.5 m) × 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



* Company names and product names mentioned in this catalog are usually trademarks or registered trademarks of their respective owners.
* Specifications subject to change without notice.

Distributed by:

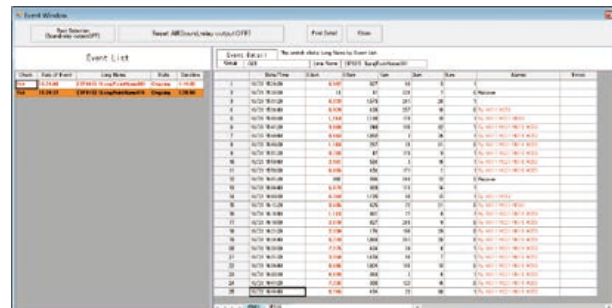
RP Monitor Evo10 K1701 Ver.2

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



Sample display

Printer KP-06A

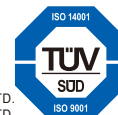
Connect to control particle counter.
Repeats the set number of measurement, calculate and prints the average results.



Specifications

Particle size ranges	Maximum 6 ranges (depending on particle counter)
Measuring results	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 mm)
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
--------	---



ISO 14001 RION CO., LTD.
ISO 9001 RION CO., LTD.

RION CO., LTD.
<https://www.rion.co.jp/english/>

3-20-41, Higashimotomachi, Kokubunji,
Tokyo 185-8533, Japan
Tel: +81-423-59-7878, Fax: +81-423-59-7458