

Airborne Particle Counter *KC-01E*

Trusted longtime seller – KC-01 series
Optimal for hard disk dust measurement and management



- JIS B 9921 compliant
- Simultaneous 5-stage particle measurement and display
≥0.3 μm, ≥0.5 μm, ≥1 μm, ≥2 μm, ≥5 μm
- Simpler operation made possible by automatic flow control
- Measurement results by thermal printer installed internally
(measurement value, particle density, average value)
- Serial interface function enables communication with PCs
- D/A converter interface enables direct connection to measurement instruments (factory option)

Specifications [KC-01E]

Optical system	Light-scattering method
Light source	Laser diode, wavelength: 780 nm, rated output: 40 mW
Laser product class	Class 1, IEC 60825-1
Light detector	Photodiode
Flow rate	0.5 L/min
Size range (5 channels)	$\geq 0.3 \mu\text{m}$, $\geq 0.5 \mu\text{m}$, $\geq 1 \mu\text{m}$, $\geq 2 \mu\text{m}$, $\geq 5 \mu\text{m}$
Maximum particle number concentration	100 000 particles/L (coincidence loss 5 %)
Measurement time	
Random time	10 sec to 2 h and manual
Sample flow rate	283 mL (34 sec), 1 L (2 m), 2.83 L (5 m 40 sec), 10 L (20 m)
Measurement display	Accumulated value, differential value, particle density (unit: 1 L, 28.3 L, 1 000 L)
Input/output connectors	
ALARM	Terminals are shorted when the selected particle size measurement value reaches the preset alarm level.
SERIAL	D-sub 9pin (male)
Internal printer	Thermal line/dot
Environmental conditions for operation	5 °C to 35 °C, 30 % to 80 % (no condensation if printer is used)
Power	100 V to 240 V AC, 50/60 Hz, approx. 50 VA
Dimensions and weight	Approx. 135 (H) × 300 (W) × 300 (D) mm (excluding projections), approx. 6.3 kg
Accessories	Sampling pipe × 1 Sampling tube (vinyl, $\phi 7 \text{ mm} \times \phi 5 \text{ mm}$, 2 m) × 1 Air filter × 1 Power cord (for use in Japan, 2.5 m) × 1 Thermosensitive paper TP-08 × 2

Factory options	External start/stop Outlet D/A converter interface KZ-25-S01
Options	Communication cable CC-61A (9pin use) Trunk KC-01-521 Thermosensitive paper TP-08 (6-roll pack) Dust free thermosensitive paper TP-10 (6-roll pack)

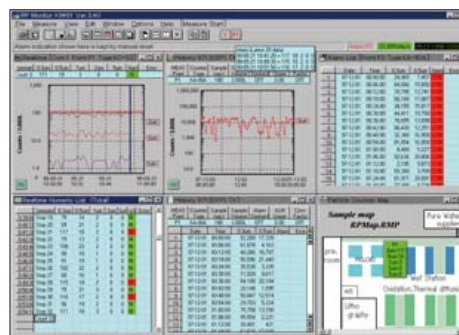
RP monitor K9461 Ver. 2

Option

Enables automatic control of particle counter, data collection, real-time graph display, filing and printout using a computer

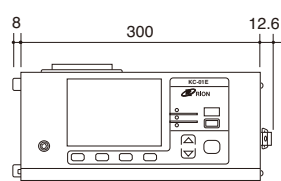
- Enables data processing using spreadsheet software (Windows Excel, etc.)
- Enables one-to-one control of RION particle counters in the RS-232C mode

Compatible OS: Microsoft Windows 2000/XP

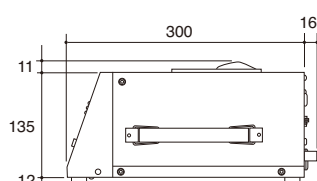


Sample display

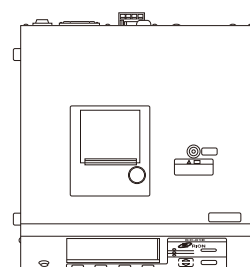
External configuration (unit : mm)



Front view



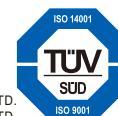
Side view



Top view

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