

Airborne **Particle Counter** **KC-03B**

Measures 0.3 μm particles in 3 L/min sample airflow



Validation-Related Technology

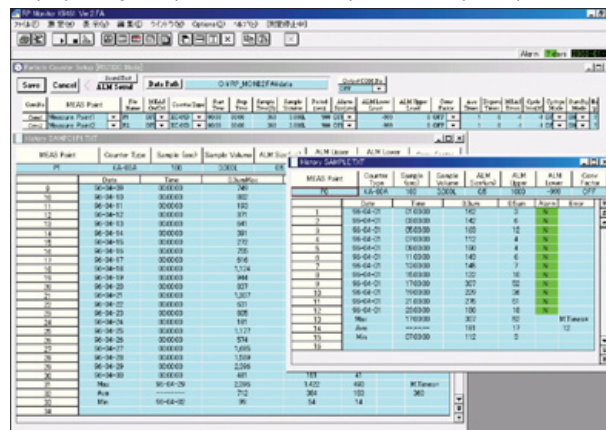
- JIS B 9921 compliant
- Simultaneous 5-stage particle measurement and display
0.3 μm and above, 0.5 μm and above, 1 μm and above,
2 μm and above, 5 μm and above
- Simpler operation made possible by automatic flow control
- Measurement results by thermal printer installed internally
(measurement value,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

Specifications

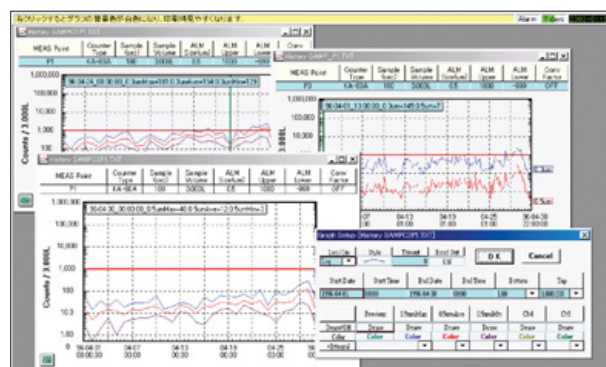
Optical system	Transverse light-scattering system
Light source	Semiconductor laser, wavelength: 780 nm, rated output: 40 mW
Laser product class	Class 1, IEC 60825-1: 2001
Light detector	Photodiode
Sample flow rate	3 L/min
Particle size measurement range (5 stages)	0.3 μm and above, 0.5 μm and above, 1 μm and above, 2 μm and above, 5 μm and above
Maximum rated particle density	30 000 particles/L (measurement loss within 5 %)
Measurement time	
Random time	10 sec to 2 h and manual
Sample airflow	1 L (20 sec), 2.83 L (57 sec), 10 L (3 m 20 sec), 28.3 L (9 m 26 sec)
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
Operating temperature and humidity range	5 °C to 35 °C, 30 % to 80 % (no condensation if printer is used)
Power requirements	100 V to 240 V AC, 50/60 Hz, approx. 65 VA
Dimensions and weight	Approx. 135 mm (H) × 300 mm (W) × 300 mm (D) (excluding projections), approx. 7.3 kg
Supplied accessories	Sampling tube × 1 Sampling tube (vinyl, 7 mm (dia.) × 5.2 m length) × 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 Optional

Particle counter automatic control, data collection, real-time graph display, filing and printouts can be implemented by computer.



Example of numerical list

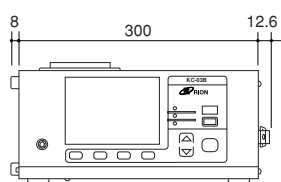


Example of graph display

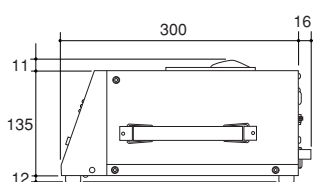
- Data can be processed using a spreadsheet application (Windows Excel, etc.).
- Serial interface function enables one-to-one control of RION particle counters.

Compatible OS: Microsoft Windows 2000 / XP

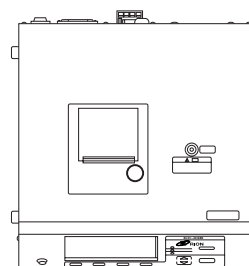
External configuration (unit : mm)



Front view



Side view



Top view

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* Specification subject to change without notice.



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