RION

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
  $\geq 0.3\ \mu m$, $\geq 0.5\ \mu m$, $\geq 1\ \mu m$, $\geq 2\ \mu m$, $\geq 5\ \mu m$
- 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-03B]

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	3 L/min
Size range (5 channels)	≥0.3 μm, ≥0.5 μm, ≥1 μm, ≥2 μm, ≥5 μm
Maximum particle number concentration	30 000 particles/L (coincidence loss 5 %)
Measurement time	
Random time	10 sec to 2 h and manual
Sample flow rate	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
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. 65 VA
Dimensions and weight	Approx. 135 (H) × 300 (W) × 300 (D) mm (excluding projections), approx. 7.3 kg
Accessories	Sampling pipe × 1 Sampling tube (vinyl, ϕ7 mm × ϕ5 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

Enables automatic control of particle counter, data collection, real-time graph display, filing and printout using a computer
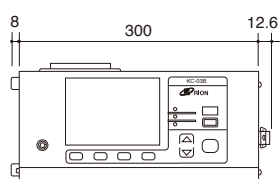
● Enables data processing using spreadsheet software (Windows Excel, etc.)
● Enables one-to-one control of RION particle counters in the RS-232C mode
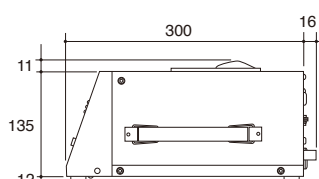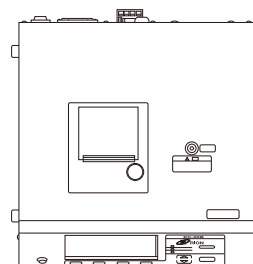
Compatible OS：Microsoft Windows 2000/XP

Sample display

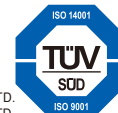## External configuration (unit : mm)

Front view

Side view

Top view

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∗ Specifications subject to change without notice.

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