**RION**

# Airborne Particle Counter
# *KC-20A*

## Large particle counter with internal printer for functional enhancement

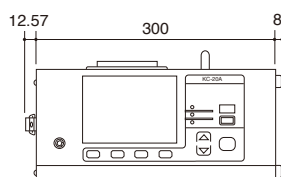### For monitoring large suspended particles in coating or precision assembly processes

- Simultaneous 5-stage particle measurement and display

  $\geq 10\ \mu m, \geq 20\ \mu m, \geq 30\ \mu m, \geq 50\ \mu m, \geq 100\ \mu m$
- Work environment measurements realized quickly with 30 L/min sample airflow
- Simpler operation made possible by automatic flow control
- Eye-friendly LCD screen, volume conversion also possible
- Internal thermal printer. Dust free thermosensitive paper also available (optional)
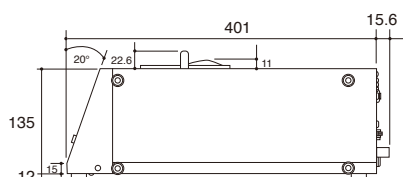
## Specifications [KC-20A]

| | |
|---|---|
| Optical system | Light-scattering method |
| Light source | Laser diode, wavelength: 780 nm, rated output: 3 mW |
| Laser product class | Class 1, IEC 60825-1 |
| Light detector | Photodiode |
| Flow rate | 30 L/min |
| Size range (5 channels) | ≥10 $\mu$m, ≥20 $\mu$m, ≥30 $\mu$m, ≥50 $\mu$m, ≥100 $\mu$m |
| Maximum particle number concentration | 2 000 particles/L (coincidence loss 5 %) |
| Measurement time | |
|     Random time | 10 sec to 2 h and manual |
|     Sample flow rate | 10 L (10 sec), 28.3 L (57 sec), 100 L (3 m 20 sec), 283 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 | ALARM OUT terminals are shorted by relay contact 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 | 0 °C to 35 °C, 30 % to 80 % (no condensation if printer is used) |
| Power | 100 V to 240 V AC, 50/60 Hz, approx. 160 VA |
| Dimensions and weight | Approx. 135 (H) × 300 (W) × 401 (D) mm (excluding projections), approx. 11.6 kg |
| Accessories | Sampling pipe × 1 |
| | Sampling tube (vinyl, $\phi$11 mm × $\phi$7 mm, 1 m ) × 1 |
| | Tube joint × 1 |
| | Power cord (for use in Japan, 2.5 m) × 1 |
| | Thermosensitive paper TP-08 × 2 |
| | Mesh filter × 2 |

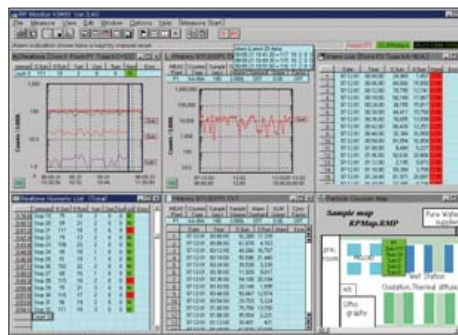| | |
|---|---|
| Factory options | External start/stop |
| | Outlet |
| | D/A converter interface KZ-25-S01 |
| Options | Communication cable CC-61A (9pin use) |
| | Trunk KC-01-521 |
| | Air filter |
| | Mesh filter |
| | Thermosensitive paper TP-08 (6-roll pack) |
| | Dust free thermosensitive paper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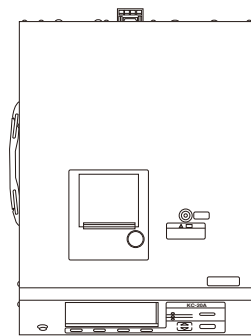
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