



Particle counter **KM-27**

Multi-function clean room monitor

Counts $0.3 \mu\text{m}$ with a flow rate of 1CF/min.

—————**For multi-point monitoring systems**



- Simultaneous measurement in six size ranges ($\geq 0.3 \mu\text{m}$, $\geq 0.5 \mu\text{m}$, $\geq 1 \mu\text{m}$, $\geq 3 \mu\text{m}$, $\geq 5 \mu\text{m}$, $\geq 10 \mu\text{m}$.)
- Large sample flow ensures fast and precise measurement and evaluation
(One cubic foot--28.3 liters--can be sampled per minute.)
- Built-in thermal printer delivers no-fuss hardcopy
(Standard serial interface allows continuous measurement under computer control)
- Buffer memory for 400 data enables storing and readout of measurement results
- Manifold type multi-tube system configuration possible (option)



Versatile System Configuration Possibilities With Multi-Point Monitoring System Software **RP Monitor** and **KF-02A**

Particle counter **KM-27** specifications

Measurement principle:	70° sideway light-scattering principle
Light source:	Semiconductor laser
Photo detector:	PIN photo diode
Calibration:	Polystyrene latex spheres with refractive index 1.6
Minimum diameter of countable particles:	0.3 μm
Measurement size range:	≥0.3 μm, ≥0.5 μm, ≥1 μm, ≥3 μm, ≥5 μm, ≥10 μm,
Sample flow rate:	28.3 lit./min. (1CF/min.)
Maximum particle concentration:	14000 particles/lit. (coincidence loss 5% or less for 0.3 μm)
Display:	LED 7 digit
Ambient conditions for operation:	12 to 29°C, 20 to 85%RH (no condensation)
Dimensions:	335 (W) × 165 (H) × 479 (D) mm (max.) 285 (W) × 156 (H) × 448 (D) mm (excluding protruding parts)
Weight:	Approx. 11 kg

Options

RP Monitor K9461 <Version 2, Version 3 >

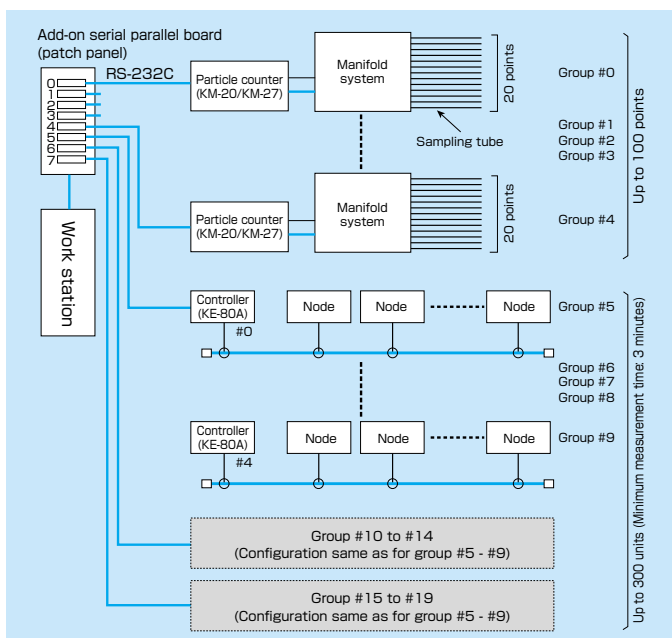
- Software running on Windows 3.1 and Windows 95 makes automatic particle counter operation easy.
- Spreadsheet software can be used to process data.
- <Version 2> Can drive all RION particle counters in RS-232-C mode.
- <Version 3> Using a RS-232-C/RS-485 converter, a multi-sensor monitoring system with up to 20 measurement points can be easily configured.

Multi-point monitoring system software **KF-02A series**

- Suitable for large-scale multi-point monitoring systems and for systems using a multi-sensor and multi-tube configuration (KF-02A series).
- Suitable for multi-point systems using mainly tubes (KF-02AK2).
- Connection of temperature and humidity sensor possible.
- Support for maximum 400 sensor points, with recording, display, and printout of measurement results.
- RION sensors such as KA-80B, KA-81, KS-16, KS-17, KL-28B with multi-point monitoring system interface can be connected to the computer via the multi-point system controller KE-80A.
- Manifold type multi-tube system configuration possible (KF-02A series).

Tube type multi-point system (**KF-02A**) series

- System configuration example (KF-02A K1)



Tube type multi-point system manifold

- With a manifold and tube arrangement, a single particle counter (KM-20, KM-27) can be used to perform measurements at up to 32 locations.
- Manifold controller governs the sampling cycle.
- Alarm module can be used to supply alarm signals to external equipment.
- KF-02A series can directly drive the manifold and manifold controller, as shown in the diagram at left.

Manifold

Number of sampling ports: 32
 Tube diameter and length: Internal diameter 3/8 inches
 Maximum length 98 feet

Manifold controller

Number of program cycles: Max. 100 steps

Alarm module

Number of output ports: 17

Specifications subject to change without notice.



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