![RION logo]

CE

Particle Sensor for Multi-point Monitoring Applications
KA-02

Ideal for configuring multi-point monitoring sensor systems
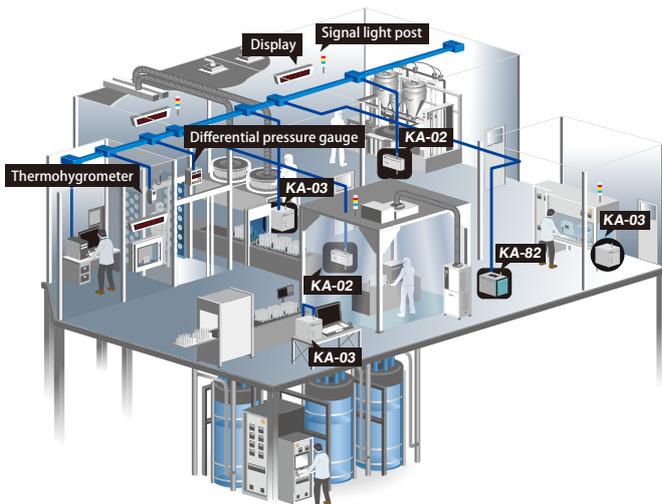

- Compact dimensions and light weight allow dust particle monitoring within process equipment
- Two particle size channels: ≥0.3 μm, ≥0.5 μm
- Stainless steel chassis for improved resistance against chemicals
- Compatible with multi-point type monitoring systems (RP Monitor Evo10 K1701 Ver.3)
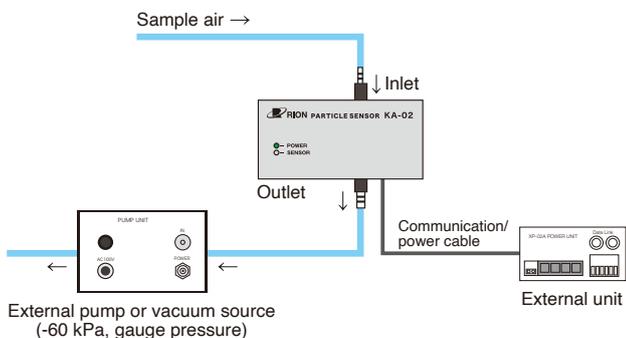
Specifications [KA-02]

Optical system	Light scattering method
Light source	Laser diode (wavelength 780 nm, rated output 35 mW)
Laser product class	Class 1, IEC 60825-1
Light detector	Photodiode
Flow rate	2.83 L/min
Particle size range	2 channels: ≥0.3 µm, ≥0.5 µm
Maximum particle number concentration	140 000 000 particles/m³ (coincidence loss max. 10 %)
Indicators	POWER, SENSOR
Connection points	
Inlet	External diameter 1/8 inches (approx. 3.18 mm)
Outlet	External diameter 1/4 inches (approx. 6.35 mm)
Input/output connectors	
RJ-45	Multi-point monitoring system, alarm output (TTL output)
Environmental conditions for operation	10 °C to 40 °C, max. 85 % RH (no condensation)
Power requirements	9 to 28 V DC (supplied by external unit, option)
Dimensions and weight	52 (H) x 107 (W) x 53 (D) mm (excl. protruding parts), approx. 360 g
Supplied accessories	Hook-and-loop fastener, simple instruction manual

Options	Particle size range modification, support for ISO 21501-4 (JIS B 9921) (produced to order)

✱ The unit does not include a power supply, pump, or display.
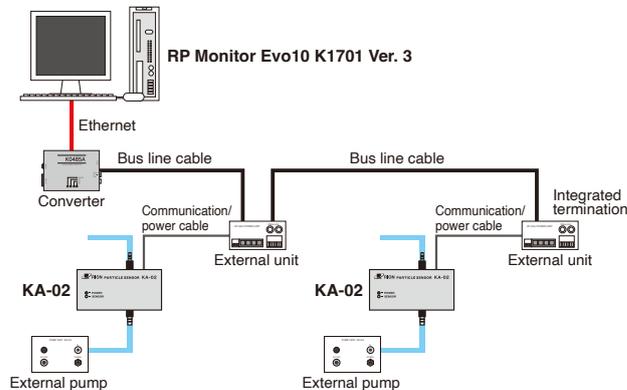
Basic configuration

Example for multi-point monitoring sensor system configuration

Example for multi-point monitoring sensor system connection
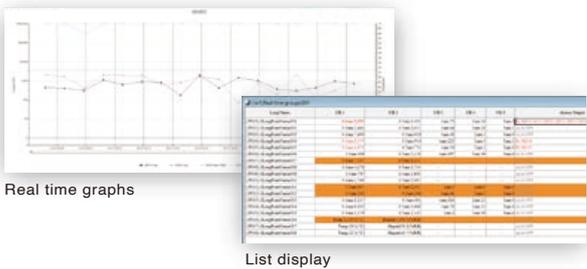(RP Monitor Evo10 K1701 Ver. 3)

RP Monitor Evo10 K1701 Ver. 3

Option

- Enables control of particle counters including automatic operation, data collection, data display, filing, and printing
- Allows simultaneous control of up to 32 particle counters in serial mode and multi mode R (expanded connection up to 160 units)
- Compatible with Microsoft Windows 10 Pro 64 bit / 11 Pro 64 bit

Real time graphs

List display

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✱ Specifications subject to change without notice.

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