![RION logo]

Particle Sensor for Multi-point Monitoring Applications
KA-82

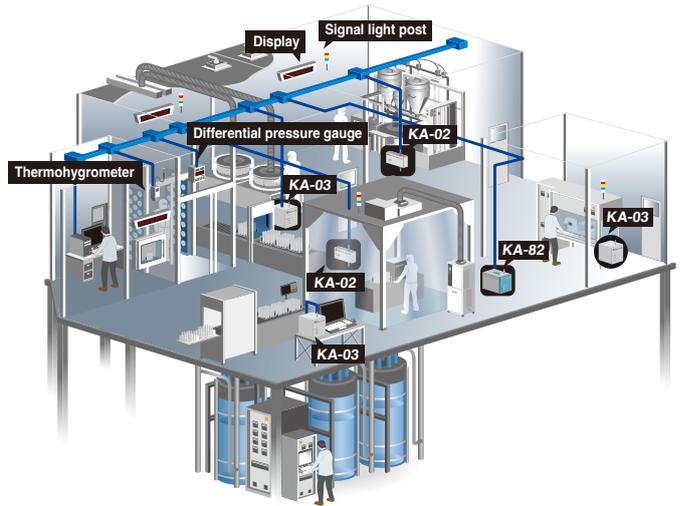## Supports 0.1 µm and real-time monitoring

- Suitable for constant and simultaneous multi-point monitoring of clean rooms
- Provides high flexibility for handling monitoring point and layout changes
- Integrated pump enables direct connection to each measurement point
- Compatible with multi-point type monitoring systems
  (RP Monitor Evo10 K1701 Ver. 3 enables configuration of up to 160 points)
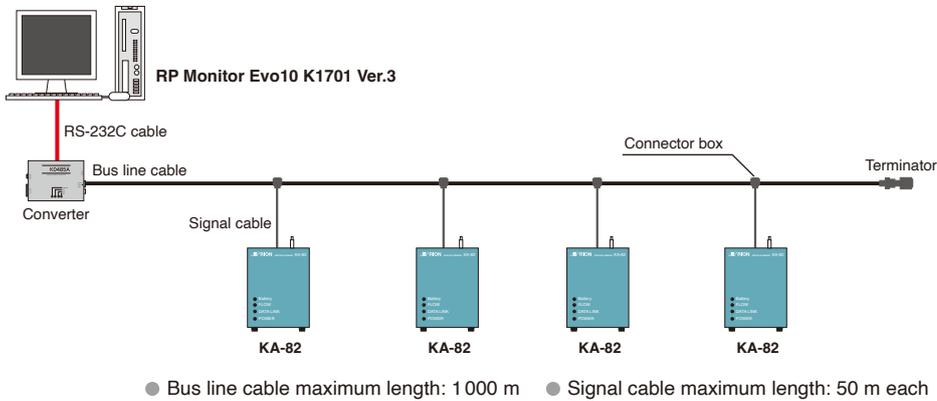
Specifications [KA-82]

Optical system	Light scattering method
Light source	Laser-diode pumped solid state laser (wavelength 1 064 nm), opencavity type 　Laser diode (Wavelength 800 nm, rated output power 1 W) 　Laser medium (Nd:YVO₄)
Laser product class	Class 1, IEC 60825-1
Light detector	Photodiode
Flow rate	2.83 L/min
Minimum particle size	0.1 μm (for spherical particles with refractive index 1.6)
Particle size range	5 channels: ≥ 0.1 μm, ≥ 0.15 μm, ≥ 0.2 μm, ≥ 0.3 μm, ≥ 0.5 μm
Maximum particle number concentration	10 000 particles/L (coincidence loss 5 %)
Input/output connectors	
ALARM 1 terminal / 　ALARM 2 terminal	For alarm output (max. contact rating: 30 V DC, 1 A) Relay contacts close when alarm output is triggered via DATA LINK connector
DATA LINK connector	Interface for multi-point monitoring system
Power requirements	100 V to 240 V AC, 50/60 Hz, approx. 100 VA
Dimensions and weight	Approx. 185 (H) x 155 (W) x 330 (D) mm (excl. protruding parts), approx. 7.5 kg
Supplied accessories	Sampling pipe x 1 Sampling tube (2 m) x 1 Power cord (for 100 V AC domestic use in Japan) x 1

Example for multi-point monitoring sensor system configuration

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

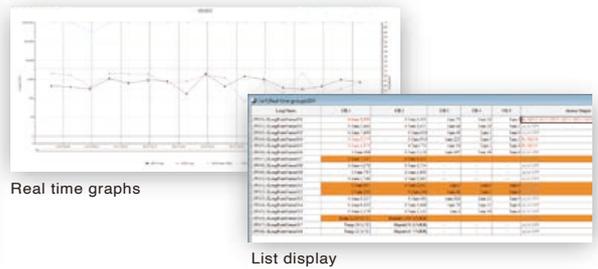● Bus line cable maximum length: 1 000 m　　● Signal cable maximum length: 50 m each

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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