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)
Example for multi-point monitoring sensor system configuration

Optical system: Light scattering method

Light source:
- Semiconductor laser excitation solid laser (wavelength 1064 nm), open cavity type
- Semiconductor laser (wavelength 800 nm, rated output 1 W)
- Solid laser (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)
- 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 connection (using RP Monitor Evo10 K1701 Ver.3)

- Bus line cable maximum length: 1000 m
- Signal cable maximum length: 50 m each

RP Monitor Evo10 K1701 Ver.3

- 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 Windows 10 (64 bit)

Option

Real time graphs
List display

Distributed by:

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