RION

Liquid-borne Particle Sensor
KS-16/KS-16F
(HF measurement)

Finally -- A Sensor for In-Line Monitoring of Liquid-Borne Particles with 0.1 μm Resolution

Monitor particles in real time at the actual point of use

CHARACTERIZING CONTAMINANTS	Integrated use
Process monitoring at critical system points	Compact 0.1μm sensor
REAL-TIME PARTICLE MONITORING	Long-life laser light source
Control and maintain quality in real time	High-performance laser diode
HIGH DETECTION EFFICIENCY	Detection efficiency 70 % or higher
With greater low end sensitivity	Sophisticated detection technology
ON THE SPOT	Pure water, chemicals, fluoroxide
Suited for use with a variety of liquids	Integrated deposit flow cell
MULTI-POINT SENSING	Versatile array of interfaces
System integration	RS-232-C, RS-485, flow controller, pump, etc.

FACILITY MONITORING SYSTEM

Compact, low-price sensor ideal for integrated use in central chemical supply systems and wet benches

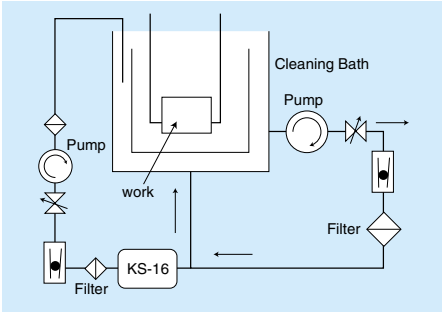
RP Monitor System for up to 20 Points. LMS and KF-02A Support Multi-Point Monitoring at 100 Points or More.

Specifications

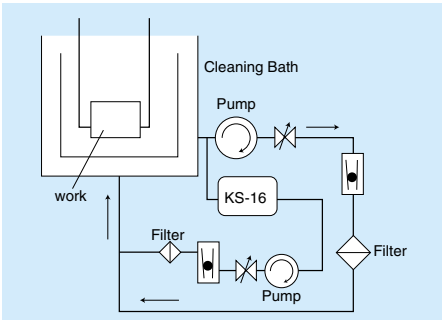
Optical System: 90°sideway light-scattering principle
Light source: Laser diode (wave length : 830 nm)
Light detector: PIN Photo diode
Materials of component parts exposed to sample fluid: PFA, fused silica (KS-16), sapphire (KS-16F)
Minimum diameter of countable particle: 0.1 μm
Measurement size range: Five channels 0.1, 0.15, 0.2, 0.3, 0.5 μm
Counting efficiency: 70 ± 15 % (KS-16)
60 ± 15 % (KS-16F)
Flow rate: 10 mL/min
Maximum particle concentration: 1200 particles/mL (coincidence loss 5% or less)
Sample fluid temperature range: 15 to 35°C
Allowable sample fluid pressure: 300kPa or less (gauge pressure)
Dimensions:
Main unit: 240 (W)×110 (H)×150 (D)mm (excluding protruding parts)
Weight: Approx. 3.5 kg
Power supply unit: 70 (W)×111 (H)×184 (D)mm (excluding protruding parts)
Weight: Approx. 0.8 kg
Interface: RS-232-C, RS-485

Sampling Example

Monitoring the purity of wet bench cleaning liquid

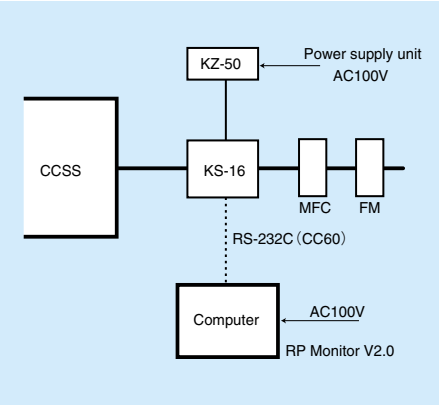


Monitoring the purity inside a wet bench cleaning bath

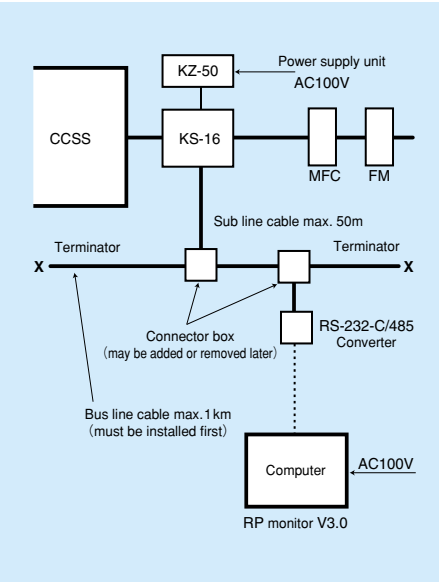


System

Operation Control of KS-16 Via RS-232-C Interface

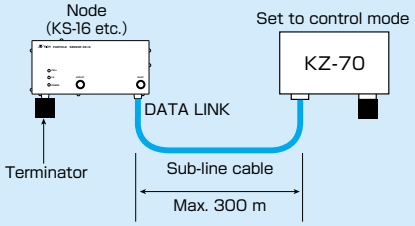


Operation Control of KS-16 Via RS-485 Interface



Operation Control of KS-16 with Sensor Controller KZ-70

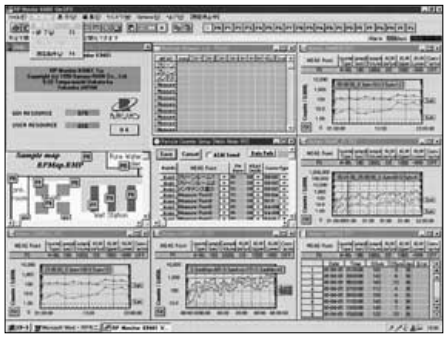
All measurement parameter settings are made at the KZ-70.



Monitoring Systems (Option)

RP Monitor K9461 〈Ver. 2, 3〉

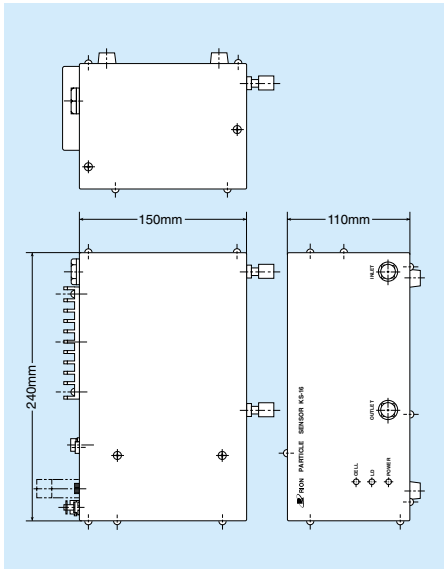
- Particle counter automatic operation
- Can drive any Rion particle counter in RS-232C mode (Ver. 2).
- RS-232C/RS-485 converter allows multi-sensor system with 20 points (Ver. 3).



Multi-Point Monitoring Software KF-02A

- Measurement control, data collection, result display and printing for up to 100 sensors.
- Supports up to 5 controllers, each with up to 20 sensors.

KS-16 Dimensional Drawing



Specifications subject to change without notice.

RION CO., LTD.
20-41, Higashimotomachi 3-chome, Kokubunji, Tokyo 185-8533, Japan
Telephone: +81-42-359-7878 Fax: +81-42-359-7458
URL：http://www.rion.co.jp/ E-mail: info@rion.co.jp

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