

In-Liquid 0.05 μ m Particle Sensor KS-17B

In-Line Particle Sensor Helps to Manage Particle Contamination in Ultrapure Deionized Water

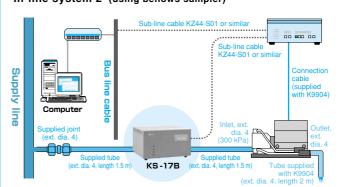


- Can be directly installed in equipment for on-site process control
- Max.Sample pressure is 700 kPa
- Sensor controller KZ-70 can be used for display, operation control, printout with printer, and other functions
- Multi-point monitoring system interface allows control from a computer (also in conjunction with KZ-70) directry
- Allows configuration of multi-point monitoring system (RP Monitor/KF-02B)

Build a 20 Points Monitoring System With RP Monitor or Cover 248 Points With KF-02B

In-line measurement system examples In-line system 1 (using mass flow controller) ĸz-70 Supply line . КS-17В Purge line

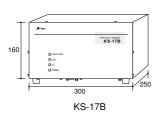
In-line system 2 (using bellows sampler)

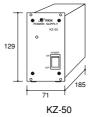


Specifications

90° sideway light-scattering method
Laser diode (rated output 200 mW, wavelength 830 ±10 nm)
Class 1, IEC 60825-1 (2001)
Photodiode
Synthetic quartz, PFA, Perfluoro (Fluorocarbon rubber)
Pure water (For cleaning purposes, fluids which do not corrode the fluid-contacting parts may be passed through the system.)
Polystyrene latex (PSL) spheres with refractive index 1.6 in pure water
Two steps (0.05 μ m and above, 0.1 μ m and above) * 4 steps available as an option
1 ±0.3 % (usage temperature range 20 ℃ to 25 ℃, max. 85 % RH)
1 ±0.5 % (usage temperature range 15 °C to 30 °C, max. 85 % RH)
10 mL/min
100 000 particles/mL
(measurement loss 5 % for particles around 0.05 μ m)
15 °C to 30 °C (no condensation in cell assembly)
Max. 700 kPa (gauge pressure)
Sample fluid inlet/outlet, dia. 2 × dia 4, flared tube joint
RC 1/8 (1/8 PT female screw)
Powered from AC source (90 V to 250 V) via supplied power supply unit KZ-50
(supplied power cord only for domestic use in Japan at 100 V AC)
40 VA, including power supply unit KZ-50
15 °C to 30 °C, max 85 % RH (no condensation)
160 (H) × 300 (W) 250 (D) mm, approx. 6 kg (excluding protruding parts)
112 (H) × 71 (W) 185 (D) mm, approx. 0.8 kg (excluding protruding parts)

Dimensional drawing (without protruding parts)





Options

■Flow Controller With Plate + Flow Meter KS-17-301 Ideal for performing flow control in simple in-line measurement systems

Fluid type	Pure water			
Flow rate	10 mL/minute			
Usable pressure	0.075 MPa to 0.5 MPa			
Dimensions, weight	124 (H) \times 180 (W) \times 87 (D) mm, approx. 1.5 kg			



■Sensor Controller KZ-70

Combines particle sensor control and result display. Suitable for multi-point monitoring systems.

Supported equipment		Particle counters and sensors equipped with RION multi-point system interface (DATA LINK connector)
Operation modes		
	Monitor mode	Use as display in sensor multi-point monitoring system
	Controller mode	Set measurement time and other parameters and use to control particle counter or sensor operation
Dimensions, weight		190 (H) \times 170 (W) \times 40 (D) mm, approx. 1.3 kg
Option		Printer DPU-414



K9904 ■Bellows Sampler

Bellows type sampler minimizes loss of precious sample fluid during measurement.

Valve specification	Check valve: mainly for off-line measurements Magnetic operated valve: mainly for off-line measurements Air-operated type: mainly for in-line measurements
Fluid types	Photoresist, pure water, chemicals. When using for chemicals comprising combustible components, sampler interior must be purged with nitrogen gas.
Guaranteed withstanding pressure	0.3 Mpa
Dimensions, weight	190 (H) × 350 (W) × 263 (D) mm, approx. 7 kg (main unit) 106 (H) × 230 (W) × 150 (D) mm (without protruding parts).



■ Monitoring Software

•RP Monitor K9461
Mainly for 1-on-1 particle counter and sensor automatic measurement, data collection, and graph display

- •RP Monitor K9462
- For small-scale multi-point sensor monitoring systems with up to 20 points
- For large-scale multi-point sensor monitoring systems with up to 248 points



- * Company names and product names mentioned in this catalog are usually trademarks or registered trademarks of their respective owners.
- * Specification subject to change without notice.



3-20-41, Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan Tel: +81-42-359-7878 Fax: +81-42-359-7458 http://www.rion.co.jp/english/

Distributed by:		