

# Ideal for Monitoring 0.15 µm Particles in Photoresist, SOG, and Other Solutions



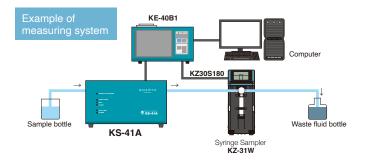
# Liquid-Borne Particle Sensor KS-41A

- Detects particles in photoresist down to 0.15 µm size, at a flow rate of 10 mL/min
- Particle size range
  Up to 10 user selectable channels (by KE-40B1) from 0.15 μm to 0.5 μm
  Factory default setting : four channels (≥0.15 μm, ≥0.2 μm, ≥0.3 μm, ≥0.5 μm)
- ■Integrated leak sensor with alarm output



#### Specifications[KS-41A]

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Optical system	Light-scattering method
Light source	Laser diode (wavelength 830 nm, rated output 200 mW)
Laser product class	Class 1, IEC 60825-1
Light detector	PIN type photodiode
Materials of parts exposed to sample	Synthetic quartz, PFA
Allowable sample type	Fluids which do not corrode the fluid contact materials
Calibration	Polystyrene latex (PSL) particles (refractive index 1.6) in pure water
Size range	
4 channels (factory default)	≥0.15 µm, ≥0.2 µm, ≥0.3 µm, ≥0.5 µm
User selectable channels	1 to 10 channels, setting made from Controller
Setting range	0.15 μm to 0.5 μm
Counting efficiency	50 ±10 %
Flow rate	10 mL/min
Maximum particle number concentration	1200 particles/mL (at 5 % coincidence loss for 0.15 μm particles)
Sample pressure range	300 kPa (gauge pressure) or less
Sample inlet/outlet	2 (dia.) x 4 (dia.) flared joint for tube
Purge air port	Rc 1/8 (1/8 PT female screw)
Input/output connectors	
CONTROLLER connector	Connecting to KE-40B1
LIQUID LEAK	Alarm output terminal shorted during normal operation,
ALARM connector	open when internal leak is detected
Power	DC12 V (supplied by KE-40B1 or KZ-51)
Environmental conditions for operation	15 °C to 30 °C, less than 85 % RH (no condensation)
Dimensions and weight	160 (H) x 300 (W) x 251 (D) mm (excluding protruding parts), Approx. 7.5 kg
Accessories	Tube A vacuum pack x 1
	(2 x 4 dia. PFA tube with flared joint at one end, 1.5 m x 2, Union joint x 1)
	Cleaning brush set x 1, Connection cable A (1 m) x 1
Option	Connection cable B (5 m) KS-42-123

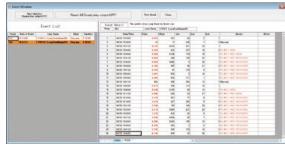


#### RP Monitor Evo10 K1701 Ver.2

Option

Used for controling particle counters to regulate the start/end of measurement and turn the light source/built-in pump on and off. Available setting parameters include measurement time, period, number of measurements, alarm, and conversion.

Allows control of up to 8 particle counters in serial mode, using 8 ports.
 Operating system: Microsoft Windows 10 Pro 64 bit / 11 Pro 64 bit



Sample display

## Syringe Sampler KZ-31W

For batch measurement of liquid-borne particle sensor \*Connecting cable (KZ30S180, optional)

### Multi-Point Unit KZ-51

Power supply unit to connect KS-41A to RION multi-point monitoring system



Specifications [KE-40B1]

\*Use only RION supplied cards for assured operation.



For operation control of particle sensor and display of measurement data

#### Controller KE-40B1

- Particle size range can be freely set for up to 10 channels.
- Built-in printer. Measurement data can be stored on memory card (CF card).



Particle size range (max.10 channels), Count (max. 8 digits)
Touch panel, Sheet switches
10 seconds to 2 hours, or manual
Manual measurement
Automatic measurement: mean value measurement, moving average measurement,
periodic measurement, scheduled time measurement
When measured value in a selected channel reaches the preset alarm level,
a buzzer sounds and alarm terminals are shorted by relay contacts
Maximum connected load: DC 30 V, 1 A
RS-232C
Printout of measurement results, date and time
Thermal paper: TP-08, Clean thermal paper: TP-10
CompactFlash (CF) card*(automatic storage in TSV format)
100 to 240 V AC, 50/60 Hz, approx. 130 VA
140 (H) x 240 (W) x 146 (D) mm (excluding protruding parts), approx. 3 kg
Power cord x 1, Thermal paper TP-08 x 2 rolls
Communication cable CC-61A/63A, Thermal paper TP-08, Lint-free thermal paper TP-10,
Memory card MC-25CF2 (256 MB)
D/A converter interface KE-40-S06

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- \* Specifications subject to change without notice

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