



Liquid-Borne Particle Sensor



Counting efficiency improved to 10 % High sensitivity allows measurement of 0.05 μ m particles in liquid

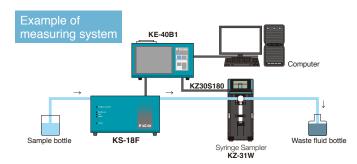
Liquid-Borne Particle Sensor KS-18F

- Detects particles down to 0.05 μ m size, at a flow rate of 10 mL per minute
- Four particle size range (4 channels, factory default setting) $\ge 0.05 \ \mu$ m, $\ge 0.1 \ \mu$ m, $\ge 0.15 \ \mu$ m, $\ge 0.2 \ \mu$ m
- Integrated leak sensor with alarm output
- Sapphire flow cell
- User selectable channels within measurement range (using KE-40B1)
- Particle size resolution enhancement technology employed (patented)



Specifications[KS-18F]

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Optical system	Light-scattering method
Light source	Diode pumped solid state laser (rated output 500 mW, wavelength 532 nm)
Laser product class	Class 1, IEC 60825-1
Light detector	Silicon photodiode
Materials of parts exposed to sample	Sapphire, PFA
Allowable sample fluid type	Fluids which do not corrode the fluid contact materials
Calibration	Polystyrene latex (PSL) particles with refractive index 1.6 in pure water
Size range	
4 channels (factory default)	≥0.05 µm, ≥0.1 µm, ≥0.15 µm, ≥0.2 µm
User selectable channels	1 to 10 channels
Setting range	0.05 μm to 0.2 μm
Flow rate	10 mL/min
Counting efficiency	10 % ±3 %
Size resolution	10 % or less (PSL particles in 0.15 μ m range)
Maximum particle	15 000 particles/mL (coincidence loss 5 %),
number concentration	30 000 particles/mL (coincidence loss 10 %)
Sample pressure range	300 kPa (gauge pressure)
Sample inlet / outlet	ϕ 2 mm x ϕ 4 mm. flared joint for tube
Purge air port	One - touch type joint for dia. 6 tube
Input / output connectors	
CONTROLLER	Connection to KE-40B1
LIQUID LEAK ALARM	Relay contacts
Environmental conditions for operation	15 °C to 30 °C, less than 80 % RH (no condensation)
Power	DC12 V (supplied from KE-40B1)
Dimensions and weight	147 (H) x 272 (W) x 442 (D) mm (excluding protruding parts), approx. 12 kg
Supplied Accessories	Tube A vacuum pack x 1 (ϕ 2 mm x ϕ 4 mm. PFA tube with flared joint
	at one end, 1.5 m x 2, Union joint x 1), connection cable A(1 m) x 1



For operation control of particle sensor and display of measurement data

Controller KE-40B1

Distributed by:

- Particle size range can be freely set for up to 10 channels.
- Built-in printer.



RP monitor EVO K0505 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 Measurement time, period, number of measurements, alarm, and conversion settings

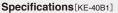
- This software can monitor the same number of particle counters to
- serial ports when it is installed on a computer that can detect multiple serial ports (COM ports). Supported OS: Microsoft Windows XP Professional (32 bit), 7 Professional (32 bit)
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Sample display

Syringe Sampler **KZ-31W**

For batch measurement of liquid-borne particle sensor.

*Connecting cable (KZ30S180, option)



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Display	
Display items	Particle size range (max.10 channels), Count (max. 8 digits)
Controls	Touch panel, Sheet switches
Measurement	
Measurement time	10 seconds to 2 hours, or manual
Measurement	Manual measurement
modes	Automatic measurement: mean value measurement, moving average measurement,
	periodic measurement, scheduled time measurement
Alarm	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
Communication	RS-232C
Printer	Printout of measurement results, date and time
Recording paper	Thermal paper: TP-08, Clean thermal paper: TP-10
Memory	CompactFlash (CF) card*(automatic storage in TSV format)
Power	100 to 240 V AC, 50/60 Hz, approx. 130 VA
Dimensions and weight	140 (H) x 240 (W) x 146 (D) mm (excluding protruding parts), approx. 3 kg
Accessories	Power cord x 1, Thermal paper TP-08 x 2 rolls, Dummy card
Options	Communication cable CC-61A, Thermal paper TP-08, Clean thermal paper TP-10,
	Memory card MC-25LC1 (256 MB), CFcard adapter CFC-ADP03
Factory option	D/A converter interface KE-40-S06

*Use only RION supplied cards for assured operation.

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