



Liquid-Borne Particle Sensor



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

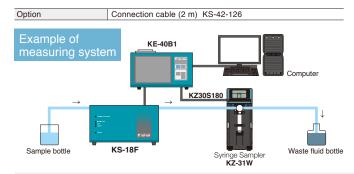
Liquid-Borne Particle Sensor KS-18F

- 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]

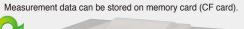
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Optical system	Optical system Light-scattering method					
Light source	ight source Diode pumped solid state laser (rated output 500 mW, wavelength 532					
Laser product class	Class 1, IEC 60825-1					
Light detector	Silicon photodiode					
Materials 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 wate					
Size range						
4 channels (factory default)	channels (factory default) $\geq 0.05 \ \mu m$, $\geq 0.1 \ \mu m$, $\geq 0.15 \ \mu m$, $\geq 0.2 \ \mu m$					
User selectable channels	r 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	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 join at one end, 1.5 m x 2, Union joint x 1), connection cable A(1 m) x 1					
	at one end, 1.5 m x 2, omon joint x 1), connection cable A(1 m) x 1					



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.





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 Measurement time, period, number of measurements, alarm, and conversion settings

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

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Sample display

Syringe Sampler KZ-31W

For batch measurement of liquid-borne particle sensor.

*Connecting cable (KZ30S180, option)



Specifications[KE-40B1]

Display							
Display items	Particle size range (max.10 channels), Count (max. 8 digits)						
Controls	trols 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	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/63A, Thermal paper TP-08, Lint-free thermal paper TP-10,						
	Memory card MC-25CF2 (256 MB), CFcard adapter CFC-ADP03						
Factory option	option D/A converter interface KE-40-S06						
*Use only RION	supplied cards for assured operation.						

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