

Compatible with a wide range of measurement of various particle sizes and types



Liquid-Borne Particle Sensor KS-42C

- Detects particles down to 0.5 μ m size,
 - at a flow rate of 10 mL/min
- Seven particle size ranges (7 channels, factory default setting) $\geq 0.5 \ \mu m, \geq 1.0 \ \mu m, \geq 2.0 \ \mu m, \geq 3.0 \ \mu m, \geq 5.0 \ \mu m,$ $\geq 10 \ \mu m, \geq 20 \ \mu m,$
- Integrated leak sensor with alarm output
- User selectable channels within measurement range (using KE-40B1 function)



Specifications [KS-42C]

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0	ptical system	Light-scattering method				
Li	ight source	Laser diode (wavelength 780 nm, rated output 5 mW)				
L	aser product class	Class 1, IEC 60825-1				
Li	ight detector	PIN type photodiode				
Ma	aterials of parts exposed to sample	Synthetic quartz, PFA, PTFE				
A	llowable sample type	Any liquid that does not corrode contacting materials				
С	alibration	Polystyrene latex (PSL) particles (refractive index 1.6) in pure water				
Size range						
	7 channels (factory default)	$\geq 0.5 \mu$ m, $\geq 1 \mu$ m, $\geq 2 \mu$ m, $\geq 3 \mu$ m, $\geq 5 \mu$ m, $\geq 10 \mu$ m, $\geq 20 \mu$ m				
User selectable channels 1 channel to 10 channels, setting made from Controller						
	Setting range	0.5 μm to 20 μm				
С	ounting efficiency	70 % to 110 %				
F	low rate	10 mL/min				
Ма	aximum particle number concentration	1 200 particles/mL (at 5 % coincidence loss for 0.5 µm particles)				
S	ample pressure range	300 kPa (gauge pressure) or less				
S	ample inlet/outlet	2 (dia.) x 4 (dia.) flared joint for tube				
Ρ	urge air port	Rc1/8 (1/8 PT female screw)				
Input/output connector						
	CONTROLLER connector	Connecting to KE-40B1				
LIQUID LEAK		Alarm output terminal shorted during normal operation,				
	ALARM connector	open when internal leak is detected				
Ρ	ower	DC12 V (supplied by KE-40B1)				
En	vironmental conditions for operation	+15 °C to +35 °C, less than 80 % RH (no condensation)				
D	imensions and weight	125 (H) × 240 (W) × 151 (D) mm (excluding protrusions), Approx. 3 kg				
A	ccessories	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),				
		Connection cable A (1 m) x 1				



For operation control of particle sensor and display

• Particle size range can be freely set for up to 10 channels.

Measurement data can be stored on memory card (CF card).

of measurement data Controller KE-40B1

Built-in printer.

Ŋ GREEN 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



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	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/63A, Thermal paper TP-08, Lint-free thermal paper TP-10,					
	Memory card MC-25CF2 (256 MB), CFcard adapter CFC-ADP03					
Factory option	D/A converter interface KE-40-S06					
	supplied cards for assured operation					

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KE-4081



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