

2 μm to 100 μm Measurement Range Allows Monitoring of Coarse Particles



Liquid-Borne Particle Sensor KS-42D

- Detects particles down to 2 μm size, at a flow rate of 25 mL/min
- Up to 10 user selectable channels (by KE-40B1) from 2 μm to 100 μm

 Factory default setting: eight channels
 (≥2 μm, ≥3 μm, ≥5 μm, ≥7 μm, ≥10 μm,
 ≥25 μm,≥50 μm, ≥100 μm)
 ≥150μm support available as option
- Integrated leak sensor with alarm output

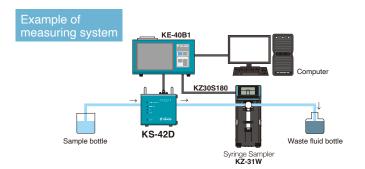






Specifications [KS-42D]

Light-obscuration method
Laser diode (wavelength 780 nm, rated output 5 mW)
Class 1, IEC 60825-1
Photodiode
Synthetic quartz, PFA, Perfluoro (fluorocarbon rubber)
Fluids which do not corrode the fluid contact materials
Polystyrene latex (PSL) particles (refractive index 1.6) in pure water
≥2 µm, ≥3 µm, ≥5 µm, ≥7 µm, ≥10 µm, ≥25 µm,
≥50 µm, ≥100 µm (≥150 µm support available as option)
1 to 10 channels, setting made from Controller
2 µm to 100 µm
100 ±20 %
25 mL/min
10 000 particles/mL (at 10 % coincidence loss for 10 µm particles)
-80 to 300 kPa (gauge pressure)
2 (dia.) x 4 (dia.) flared joint for tube
Connecting to KE-40B1
Alarm output terminal shorted during normal operation,
open when internal leak is detected
DC12 V (supplied by KE-40B1)
5 °C to 40 °C, less than 90 % RH (no condensation)
125 (H) x 140 (W) x 151 (D) mm (excluding protruding parts), Approx. 2.2 kg
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



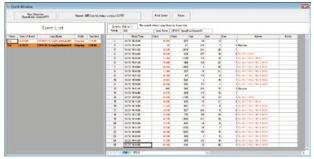
Connection cable (5 m) KS-42-123, Sensor Stand KS-42-S39

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, option)

Specifications [KE-40B1]



For operation control of particle sensor and display of measurement data

Controller KE-40B1

Option

- 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).



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
Options	Communication cable CC-61A/63A, Thermal paper TP-08, Lint-free thermal paper TP-10,
	Memory card MC-25CF2 (256 MB)
Factory option	D/A converter interface KE-40-S06
*Use only BION	supplied cards for assured operation.

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