

Liquid-Borne Particle Sensor



High sensitivity allows measurement of 0.04 µm particles in liquid

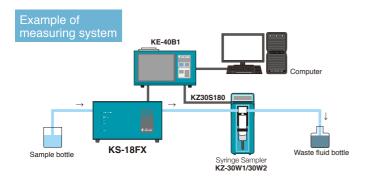
Liquid-Borne Particle Sensor KS-18FX

- Detects particles down to 0.04 μ m size, at a flow rate of 10 mL/min
- User selectable particle size range up to 10 channels within measuring range using KE-40B1
- Integrated leak sensor with alarm output
- Sapphire flow cell



Specifications [KS-18FX]

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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) | ≥0.04 µm, ≥0.08 µm, ≥0.1 µm, ≥0.15 µm |
| User selectable channels | 1 to 10 channels |
| Setting range | 0.04 μm to 0.15 μm |
| Flow rate | 10 mL/min |
| Counting efficiency | 3 % |
| Maximum particle number concentration | 30 000 particles/mL (coincidence loss less than 10 %) |
| Sample pressure range | 300 kPa (gauge pressure) or less |
| Sample inlet / outlet | Φ2 mm x Φ4 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

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).



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, 7 (32 bit)



Sample display

Syringe Sampler KZ-30W1/30W2

For batch measurement of liquid-borne particle sensor.

*Connecting cable (KZ30S180, option)

Specifications [KE-40B1]

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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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