Ideal for Monitoring 0.15 μm Particles in Photoresist, SOG, and Other Solutions

Liquid-Borne Particle Sensor
KS-41A

- Detects particles in photoresist down to 0.15 μm size, at a flow rate of 10 mL/min
- Particle size range
  Freely settable from 0.15 μm to 0.5 μm (up to 10 channels by KE-40B1)
  Factory default setting: four channels (≥0.15 μm, ≥0.2 μm, ≥0.3 μm, ≥0.5 μm)
- Integrated leak sensor with alarm output
- User selectable channels within measurement range (using KE-40B1 function)
Specifications [KS-41A]

- Optical system: Light-scattering method
- Light source: Laser diode (wavelength 830 nm, rated output 200 mW)
- Laser product class: Class 1, IEC 60825-1
- Light detector: PIN type photodiode
- Materials of parts exposed to sample: Synthetic quartz, PFA
- Allowable sample type: Fluids which do not corrode the fluid contact materials
- Calibration: Polystyrene latex (PSL) particles (refractive index 1.6) in pure water

Size range
- 4 channels (factory default)
- ≥0.15 μm, ≥0.2 μm, ≥0.3 μm, ≥0.5 μm

User selectable channels
- 1 to 10 channels, setting made from Controller
- Setting range: 0.15 μm to 0.5 μm

Counting efficiency: 50 ± 10%

Flow rate: 10 mL/min

Maximum particle number concentration: 1200 particles/mL (at 5% coincidence loss for 0.15 μm particles)

Sample pressure range: 300 kPa (gauge pressure) or less

Sample inlet/outlet: 2 (dia.) x 4 (dia.) flared joint for tube

Purge air port: Rc 1/8 (1/8 PT female screw)

Input/output connectors
- CONTROLLER connector: Connecting to KE-40B1
- LIQUID LEAK connector: Open when internal leak is detected

Power: DC12 V (supplied by KE-40B1 or KZ-51)

Environmental conditions for operation: 15 °C to 30 °C, less than 85% RH (no condensation)

Dimensions and weight: 160 (H) x 300 (W) x 251 (D) mm (excluding protruding parts), Approx. 7.5 kg

Accessories: 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), Cleaning brush set x 1, Connection cable A (1 m) x 1

Options: Connection cable B (5 m) KS-42-123

Specifications [KE-40B1]

- Display items: Particle size range (max. 10 channels), Count (max. 8 digits)
- Controls: Touch panel, Sheet switches
- Measurement time: 10 seconds to 2 hours, or manual
- Measurement modes: Manual measurement, 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), CF card adapter CFC-ADP03
- Factory option: D/A converter interface KE-40-S06

RP monitor EVO K0505 Ver. 2/Ver.3

Used for controlling 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

Supported OS: Microsoft Windows XP Professional (32 bit), 7 Professional (32 bit)

Syringe Sampler KZ-31W

For batch measurement of liquid-borne particle sensor
- Connecting cable (KZ30S180, optional)

Multi-Point Unit KZ-51

Power supply unit to connect K3-41A to RION multi-point monitoring system

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).

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This product is environment-friendly. It does not include toxic chemicals on our policy.
This leaflet is printed with environmentally UV ink on recycled paper.