

TENTATIVE



CE

Hand Held Particle Counter KC-52A/KC-51



KC-51

NEW
KC-52A

Hand Held Particle Counter KC-52A/KC-51



4.3-inch
color LCD with
touch panel

Design focused
on ease of grip

NEW

KC-52A

- Particle size range: 0.3, 0.5, 1.0, 2.0, 5.0, and 10.0 µm
- Graph display to show trend for real time or history data
- Supports data integrity
 - Outputs data with PDF to prevent tampering.
 - Audit-trail function
 - Password protection to separate administrator, user and guest access
- By using communication dock(option), it is able to connect to the multi-point monitoring system and copy data to USB flash drive.

* IF KC-52A has been used as continuous measurement sensor, we cannot provide the one-year warranty.

Multi-feature KC-52A with a touch panel and the easy-to-use, low-priced KC-51 are now available. Both can be used with an eco-friendly rechargeable battery (lithium-ion battery).



Complies to the ISO 21501-4 standard (JIS B 9921). Fully equipped with basic functions and can be used for a variety of contamination control applications.

- Contamination control of cleanrooms
- Environmental control of semiconductor manufacturing plants
- Environmental control of medicine, beverage, and food manufacturing processes, as well as packing processes
- Contamination control of hospitals and medical facilities

KC-51

- Particle size range: 0.3, 0.5, and 5.0 μm
- 3.2-inch monochrome LCD panel
- Equipped with a USB terminal



2 channels display (KC-51)

Display (KC-52A)



Measurement Screen

Measurement Screen (Japanese)

Measurement conditions settings screen

Trend Graph Screen

Output Selector Screen



Specifications	KC-52A	KC-51
Optical system	Sideway light-scattering method	
Light source	Laser diode (Wavelength 780 nm, rated output 35 mW)	
Laser product class	Class 1, IEC60825-1	
Light detector	Photodiode	
Sampling flow rate	2.83 L/min	
Size range	6 channels: $\geq 0.3 \mu\text{m}$, $\geq 0.5 \mu\text{m}$, $\geq 1.0 \mu\text{m}$, $\geq 2.0 \mu\text{m}$, $\geq 5.0 \mu\text{m}$, $\geq 10.0 \mu\text{m}$	User selectable channels 3 channels: $\geq 0.3 \mu\text{m}$, $\geq 0.5 \mu\text{m}$, $\geq 5.0 \mu\text{m}$ (Default setting) 2 channels: $\geq 0.3 \mu\text{m}$, $\geq 0.5 \mu\text{m}$ 2 channels: $\geq 0.5 \mu\text{m}$, $\geq 5.0 \mu\text{m}$
Maximum particle number concentration	140 000 000 particles/m ³ (coincidence loss 10 %)	
Measurement time/ Measurement volume	Manual, any length (1 s. to 2 hours) 283 mL (6 s.), 1 L (21 s.), 2.83 L (1 min.), 10 L (3 min. 32 s.), 28.3 L (10 min.)	Manual 283 mL (6 s.), 1 L (21 s.), 2.83 L (1 min.), 10 L (3 min. 32 s.), 28.3 L (10 min.)
Count display modes	Cumulative or differential	Cumulative
Volume setting for conversion	1 L, 28.3 L, 1,000 L, None	
Number of continuous measurements	Up to 99	Up to 10
Measurement interval	Up to 24 hours (set as measuring period)	Up to 10 sec. (set as rest period)
Number of measurement conditions that can be saved	Up to 3 patterns	—
Number of times measurement results can be stored	Approx. 10 000 times (on a rotating principle, depending on the size of measurement file)	Up to 100 times (on a rotating basis)
Stored data format	Text file in tab spaced value (TSV) format	
Stored data retrieval method	Copy to USB flash drive	Download to the connected PC via USB (using dedicated software)
Alarm function	Monitors the upper limit of the number of particles (when the count exceeds the predetermined level, a buzzer sound is heard), or measures the changes in the number of particles (Intervals between beeping sounds vary according to increase or decrease in the number of particles)	—
Password function	Only administrator and user can change the settings of measurement parameter	—
Display	4.3-inch color LCD panel	3.2-inch monochrome LCD panel
Operating method	Touch panel, buttons	Buttons
Languages	English, Japanese	English
External terminal	USB C (for connecting to PC, printer or AC adapter)	USB Mini B (for connecting to PC or printer)
Environmental conditions for operation	10 °C to 40 °C, less than 85 %RH (no condensation)	
Power	AC adapter (Input voltage: 100 to 240 V AC, 50/60 Hz) Lithium-ion battery (built-in type) Battery life: 7 hours, Charging time: 4 hours	Lithium-ion battery (built-in type) Battery life: 6 hours, Charging time: 4 hours
Dimensions and weight	307 (H) × 93 (W) × 54 (D) mm, approx. 680 g	304 (H) × 87 (W) × 55 (D) mm, approx. 780 g
Supplied Accessories	Hand strap, USB cap port protector, Zero count filter, Silicon tube, Isokinetic probe	AC adapter (include power cord), Hand strap, Zero count filter, Silicon tube, Carrying case, TSV download software, Isokinetic probe
Factory option	ISO 21501-4:2018 Compatible Calibration Modification of minimum particle size to 1 μm (Particle size range: $\geq 1.0 \mu\text{m}$, $\geq 2.0 \mu\text{m}$, $\geq 5.0 \mu\text{m}$, $\geq 10.0 \mu\text{m}$, $\geq 20.0 \mu\text{m}$, $\geq 30.0 \mu\text{m}$)	—
Optional Accessories	AC adapter (60 W, including power cord), Stand, Carrying Case, Vinyl tube, Communication dock, USB flash drive (8 GB), Printer DPU-S245, Thermal paper TP-34, Lint-free thermal paper TP-33, USB cable (C to C), USB cable (C to mini B), USB cable (A to mini B), USB cable (A to B), USB cable (mini B to C), RP monitor Evo10 K1701 Ver.2/Ver.3, RP Monitor Evo10 K1701P Ver.2/Ver.3, Tube size conversion adapter	USB cable (A to Mini B), Stand KC-52-065, Printer DPU-S245, Thermal paper TP-34, Lint-free thermal paper TP-33

For KC-52A

Option

■ RP Monitor Evo10 K1701 Ver.2/Ver.3

■ RP Monitor Evo10 K1701P Ver.2/Ver.3 (Conforms to 21 CFR Part11)

Allows for the use of a computer to collect data and control measurements.

Allows for alarm settings to be configured for measured values.

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Operating system: Microsoft Windows 10 Pro 64 bit



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