

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



KC-51

KC-52A

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

4.3-inch
color LCD with
touch panel

Option



Communication dock

Back panel of
Communication dock



Power (USB-C)
USB-A terminal
USB-B terminal
LAN port or DATA LINK connector



Unit in Communication dock



Carrying Case

KC-52A

- Particle size range:
0.3, 0.5, 1.0, 2.0, 5.0 and 10.0 μm
- Real-time and historical trend graphs enable easy understanding of cleanliness changes.
- Supports data integrity
 - Outs puts data with PDF to prevent tampering.
 - Audit-trail function
 - Password protection to separate administrator, user and guest access
- Use of communication dock (option) will enable data copy to USB flash drive and connection to the multi-point monitoring system.

* If KC-52A has been used as a continuous measurement sensor, one-year warranty cannot be provided.

*Design focused
on ease of grip*

Multi-feature KC-52A with a touch panel and the easy-to-use, low-priced KC-51 are now available.
Meets basic performance required by ISO 21501-4 (JIS B 9921) 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 for downloading data to computer and connection to printer



2 channels display (KC-51)

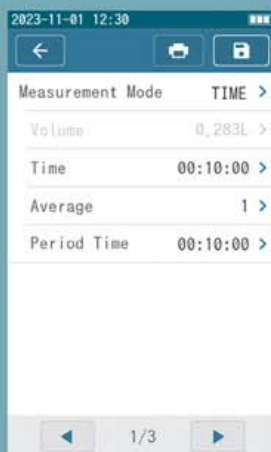
Display (KC-52A)



Measurement Screen



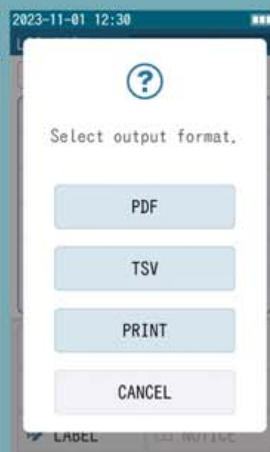
Measurement Screen (Japanese)





Measurement conditions settings screen



Trend Graph Screen



Output Selector Screen

	 KC-52A	 KC-51
Specifications		
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)
Format of stored data output	Text file in tab spaced value (TSV) format, PDF	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 / Audio function	Alarm: Monitors the upper limit of the number of particles (when the count exceeds the predetermined level, a buzzer sound is heard) Audio: 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	Compatibility for ISO 21501-4:2018 as option Modification of minimum particle size to 1 μm (Particle size range (6 channels): $\geq 1 \mu\text{m}$, $\geq 2 \mu\text{m}$, $\geq 5 \mu\text{m}$, $\geq 10 \mu\text{m}$, $\geq 20 \mu\text{m}$, $\geq 30 \mu\text{m}$)	Compatibility for ISO 21501-4:2018 as option
Optional Accessories	AC adapter* (60 W, including power cord), Charging stand, Carrying Case, Vinyl tube, Communication dock, Communication dock for DATA LINK, USB flash drive (16 GB), Printer DPU-S245, Thermal paper TP-34, Lint-free thermal paper TP-33, USB cable (C-C, 1.0 m), USB cable (C-mini B, 1.0 m), USB cable (A-mini B, 1.8 m), USB cable (A-B, 2.0 m), USB cable (A-C, 1.0 m), Conversion cable (C-A female, 8 cm), RP Monitor Evo10 K1701 Ver.2/Ver.3, RP Monitor Evo10 K1701P Ver.2/Ver.3, Tube size conversion adapter	USB cable (A-mini B), Stand KC-52-065, Printer DPU-S245, Thermal paper TP-34, Lint-free thermal paper TP-33, Tube size conversion adapter

*The main unit is compliant with CE, UKCA, and PSE standards, and the power cord is designed for use in Japan. If you need a product that adheres to different standards, please make the necessary arrangements independently. The specifications support 9 V / 3 A Power Delivery.

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.

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

Operating system: Microsoft Windows 10 Pro 64 bit / 11 Pro 64 bit



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* Specifications subject to change without notice.

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