

Hand Held Particle Counter KC-51/KC-52



Hand Held Particle Counter KC-52/KC-51

a stat

362

all.

12:34

[may]3 0.3

0.5

1.0

2.0

5.0

MENU

New streamlined body allows for sample air to flow freely, making it easy to obtain reliable measurements. The ergonomically designed body features a large and easy-to-see display for ease-of-use.

> 3.5-inch color LCD with touch panel

INFO

STOP

POWER

LAST DATA

START

USB terminal

SD card slot Data link terminal



SD card

KC-52

- Particle size range: 0.3, 0.5, 1.0, 2.0, and 5.0 μm Password protection to keep administrator and user access separate
- English and Japanese display selectable
- Equipped with a USB terminal and SD card slot
- Able to connect to the multi-point monitoring system

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

KC-52

Unit in stand

304 mm

Multi-feature KC-52 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

2010-11-09 10:39 AVG=0/1 Vol=0.283L SizeCimD Counts 0.3 28954 0.5 1666

110

STAR

-09 10:34

START Conf STOP

Remained 00:00:00

Display (KC-52)

12:34		â •	🖶 SD		
SIZE[µm]	CUMU	Counts			
0.3		3621			
0.5		287	7		
1.0		3	1		
2.0		12			
5.0					
Labe1		SEMICON			
Average			2/3		
Meas Star	rt.	2010-12-01			
Meas Tim		16:45:32 00:01:00			
Remained T	5 Course		:00:32		
MENU	LAST DA		INFO		
			THE		
C	DUNT				

Display (with English status indication)

12:34	(1999)	0	
		0	• • 50
粒径[µm]	業損	18	
0.3		362	21
0.5		28	37
1.0		3	31
2.0		1	2
5.0			1
ラベル		SEMICO)N1
平均			2/3
測定開始	ŝ		10-12-01 16:45:32
測定時間	1		00:01:00
残り時間			00:00:32
メニュー	前回デー		情報
C	OUNT		

Display (with Japanese status indication)

2 channels display (KC-51)

12:34		â 🔶 🗊
Measure	ement Mode	
	Volume	Time
Volume		
10L		-
Time		
	00:01:00	
Average		
	3	
Period		
	00:10:00	
Alarm/A		
	Alarm	Audio
	A PAGE 1/2	2 🔻
BACK	MEMORY CONFIG	PRINT
	Contract of the second s	

Measurement conditions settings screen

Specifications	KC-52	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	5 channels: ≥0.3 μm, ≥0.5 μm, ≥1.0 μm, ≥2.0 μm, ≥5.0 μm	User selectable channels: 3 channels: ≥0.3 µm, ≥0.5 µm, ≥5.0 µm (Default settin 2 channels: ≥0.3 µm, ≥0.5 µm 2 channels: ≥0.5 µm, ≥5.0 µm			
Maximum particle number concentration	140 000 000 particles/m ³ (coincidence loss 10 %)	·			
Measurement time/	Manual, any length (1 s. to 2 hours)	Manual			
Measurement volume	283 mL (6 s.), 1 L (21 s.), 2.83 L (1 min.), 10 L (3 min. 32 s.), 28.3 L (10 min.)	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	Up to 3 patterns	_			
conditions that can be saved					
Number of times measurement	Approx. 5 000 times (on a rotating principle, depending on the size of	Up to 100 times (on a rotating basis)			
results can be stored	measurement file)				
Stored data format	Text file in tab spaced value (TSV) format				
Stored data retrieval method	Copy to SD card	Download to the connected PC via USB (using dedicated software)			
	Copy to the connected PC via USB (KC-52 is recognized as a removable disc*1)				
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 can change the settings of measurement parameter	-			
Display	3.5-inch color LCD panel	3.2-inch monochrome LCD panel			
Operating method	Touch panel, buttons	Buttons			
Languages	English, Japanese	English			
External terminal	USB Mini B (for connecting to PC or printer)	•			
	Data link terminal (for connecting to the multi-point monitoring system ^{**2})	-			
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: 3.5 hours, Charging time: 3.5 hours	Lithium-ion battery (built-in type) Battery life: 4 hours, Charging time: 3.5 hour			
Dimensions and weight	304 (H) × 87 (W) × 55 (D) mm, approx. 780 g				
Supplied Accessories	AC adapter (include power cord), USB cable (A to Mini B), Stand,	AC adapter (include power cord), Hand strap, Zero count filter, Silicon tub			
	Hand strap, Zero count filter, Silicon tube, Carrying case, Isokinetic probe	Carrying case, TSV download software, Isokinetic probe			
1 Supported OS: Microsoft Window	vs 7/8.1/10 ※2 IF KC-52 has been used as continuous measurement sense	sor, we cannot provide the one-year warranty.			

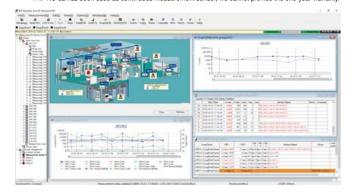
Optional Accessories	Printer DPU-S245, Thermal paperTP-34,	USB cable (A to Mini B), Stand KC-52-065, Printer DPU-S245,
	Lint-free thermal paper TP-33, SD memory card (512 MB) MC-51SS1,	Thermal paper TP-34, Lint-free thermal paper TP-33
	RP Monitor Evo10 K1701 Ver.2/Ver.3, RP Monitor Evo10 K1701P Ver.2/Ver.3	

For KC-52 Option

RP Monitor Evo10 K1701 Ver.2/Ver.3

RP Monitor Evo10 K1701P Ver.2/Ver.3 (Conforms to 21 CFR Part11) Operating system: Microsoft Windows 10 Pro 64 bit

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.



- TSV Download Software Supported OS: Microsoft Windows XP / 7 (32 bit) Allows for data stored in KC-51 to be downloaded in TSV format to a computer.
 - Downloaded data can be processed by spreadsheet applications such as Windows Excel. •

Connection cable (optional)		
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File(E) Help(H)								
GetData	SaveScreen							
2011-05-12	11:44:35	V0L=	1L	/Counts	12/2	0.3	1024.0	-
2011-05-12	11:53:16	YOL=	1L	/Counts	12/2	0.3		
2011-05-12	13:05:24	VOL=	1L	/Counts	\$1/2	0.3	\$1393.0	
2011-05-12	13:05:50	VOL=	1L	/Counts	12/2	0.3	\$1553.0	
2011-05-12	13:05:50	YOL=	1L	/Counts	AVG/2	0.3	\$6473.0	
2011-05-12	13:06:13	VOL=	1 L	/Counts	\$1/2	0.3	:0067.0	
2011-05-12	13:06:39	YOL=	1L	/Counts	\$2/2	0.3	0.0	
2011-05-12	13:06:39	VOL=	1L	/Counts	AVG/2	0.3	10023.5	
2011-05-12	14:52:03	YOL=	1 L	/Counts	\$1/2	0.3	16428.0	
2011-05-12	14:52:03	YOL=	1L	/Counts	12/2	0.3		1
2011-05-12	14:52:53	VOL=	1L	/ 28.3L	\$1/2	0.3	0.0	
2011-05-12	14:52:53	YOL=	1L	/ 28.3L	12/2	0.3		
2011-05-19	13:06:16	Man=0.	24L	/ 28.3L	\$1/1	0.3	3216840.0	
2011-05-19	13:06:32	Mam=10	5L	/Counts	\$1/1	0.3	10618686.0	~

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For KC-51 Supplied

Distributed by:



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