

Airborne Particle Counter *KC-01E*

Trusted longtime seller – KC-01 series
Optimal for hard disk dust measurement and management



- JIS B 9921 compliant
- Simultaneous 5-stage particle measurement and display
≥0.3 μm, ≥0.5 μm, ≥1 μm, ≥2 μm, ≥5 μm
- Simpler operation made possible by automatic flow control
- Measurement results by thermal printer installed internally
(measurement value, particle density, average value)
- Serial interface function enables communication with PCs
- D/A converter interface enables direct connection to measurement instruments (factory option)

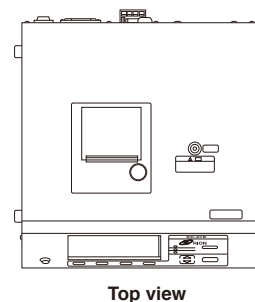
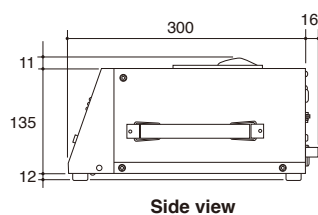
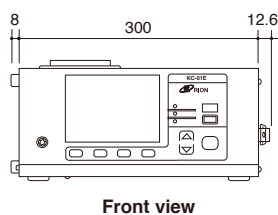
Specifications [KC-01E]

Optical system	Light-scattering method
Light source	Laser diode, wavelength: 780 nm, rated output: 40 mW
Laser product class	Class 1, IEC 60825-1
Light detector	Photodiode
Flow rate	0.5 L/min
Size range (5 channels)	$\geq 0.3 \mu\text{m}$, $\geq 0.5 \mu\text{m}$, $\geq 1 \mu\text{m}$, $\geq 2 \mu\text{m}$, $\geq 5 \mu\text{m}$
Maximum particle number concentration	100 000 particles/L (coincidence loss 5 %)
Measurement time	
Random time	10 sec to 2 h and manual
Sample flow rate	283 mL (34 sec), 1 L (2 m), 2.83 L (5 m 40 sec), 10 L (20 m)
Measurement display	Accumulated value, differential value, particle density (unit: 1 L, 28.3 L, 1 000 L)
Input/output connectors	
ALARM	Terminals are shorted when the selected particle size measurement value reaches the preset alarm level.
SERIAL	D-sub 9pin (male)
Internal printer	Thermal line/dot
Environmental conditions for operation	5 °C to 35 °C, 30 % to 80 % (no condensation if printer is used)
Power	100 V to 240 V AC, 50/60 Hz, approx. 50 VA
Dimensions and weight	Approx. 135 (H) × 300 (W) × 300 (D) mm (excluding projections), approx. 6.3 kg
Accessories	Sampling pipe × 1 Sampling tube (vinyl, $\phi 7 \text{ mm} \times \phi 5 \text{ mm}$, 2 m) × 1 Air filter × 1 Power cord (for use in Japan, 2.5 m) × 1 Thermal paper TP-08 × 2

Factory options	External start/stop Outlet D/A converter interface KZ-25-S01
Options	Communication cable CC-61A/63A (9pin use) Trunk* KC-01-521 Thermal paper TP-08 (6-roll pack) Lint-free thermal paper TP-10 (6-roll pack)

*This is for storage only. It is not capable of any transportation.

External configuration (unit : mm)



RP Monitor Evo10 K1701 Ver.2

Option

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

- Allows control of up to 8 particle counters in serial mode, using 8 ports.

Operating system: Microsoft Windows 10 Pro 64 bit

Date	Time	Size	Count	Alarm
2018/01/01	00:00	0.3	10	
2018/01/01	00:01	0.5	20	
2018/01/01	00:02	1.0	30	
2018/01/01	00:03	2.0	40	
2018/01/01	00:04	5.0	50	
2018/01/01	00:05	0.3	10	
2018/01/01	00:06	0.5	20	
2018/01/01	00:07	1.0	30	
2018/01/01	00:08	2.0	40	
2018/01/01	00:09	5.0	50	
2018/01/01	00:10	0.3	10	
2018/01/01	00:11	0.5	20	
2018/01/01	00:12	1.0	30	
2018/01/01	00:13	2.0	40	
2018/01/01	00:14	5.0	50	
2018/01/01	00:15	0.3	10	
2018/01/01	00:16	0.5	20	
2018/01/01	00:17	1.0	30	
2018/01/01	00:18	2.0	40	
2018/01/01	00:19	5.0	50	
2018/01/01	00:20	0.3	10	
2018/01/01	00:21	0.5	20	
2018/01/01	00:22	1.0	30	
2018/01/01	00:23	2.0	40	
2018/01/01	00:24	5.0	50	
2018/01/01	00:25	0.3	10	
2018/01/01	00:26	0.5	20	
2018/01/01	00:27	1.0	30	
2018/01/01	00:28	2.0	40	
2018/01/01	00:29	5.0	50	
2018/01/01	00:30	0.3	10	

Sample display

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* Specifications subject to change without notice.



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