Airborne Particle Counter
KC-20A

Large particle counter with internal printer for functional enhancement

For monitoring large suspended particles in coating or precision assembly processes

- Simultaneous 5-stage particle measurement and display
  $\geq 10 \ \mu m, \geq 20 \ \mu m, \geq 30 \ \mu m, \geq 50 \ \mu m, \geq 100 \ \mu m$
- Work environment measurements realized quickly with 30 L/min sample airflow
- Simpler operation made possible by automatic flow control
- Eye-friendly LCD screen, volume conversion also possible
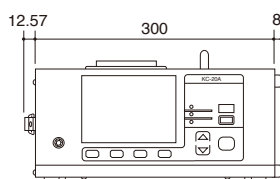- Internal thermal printer. Dust free thermosensitive paper also available (optional)

Specifications [KC-20A]

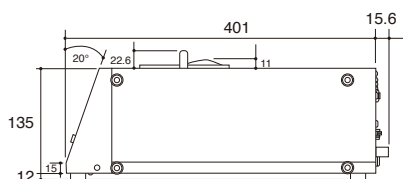|	
Optical system	Light-scattering method
Light source	Laser diode, wavelength: 780 nm, rated output: 3 mW
Laser product class	Class 1, IEC 60825-1
Light detector	Photodiode
Flow rate	30 L/min
Size range (5 channels)	≥10 μm, ≥20 μm, ≥30 μm, ≥50 μm, ≥100 μm
Maximum particle number concentration	2 000 particles/L (coincidence loss 5 %)
Measurement time	
Random time	10 sec to 2 h and manual
Sample flow rate	10 L (20 sec), 28.3 L (57 sec), 100 L (3 m 20 sec), 283 L (9 m 26 sec)
Measurement display	Accumulated value, differential value, particle density (unit: 1 L, 28.3 L, 1 000 L)
Input/output connectors	
ALARM	ALARM OUT terminals are shorted by relay contact 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	0 °C to 35 °C, 30 % to 80 % (no condensation if printer is used)
Power	100 V to 240 V AC, 50/60 Hz, approx. 160 VA
Dimensions and weight	Approx. 135 (H) × 300 (W) × 401 (D) mm (excluding projections), approx. 11.6 kg
Accessories	Sampling pipe × 1 Sampling tube (vinyl, ϕ11 mm × ϕ7 mm, 1 m) × 1 Tube joint × 1 Power cord (for use in Japan, 2.5 m) × 1 Thermal paper TP-08 × 2 Mesh filter × 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 Air filter Mesh filter 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.

RP Monitor Evo10 K1701 Ver.2   Option

Used for controling 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

Sample display
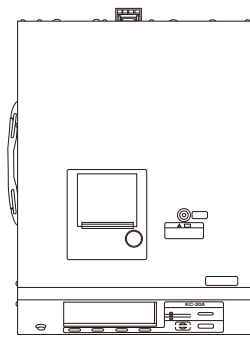
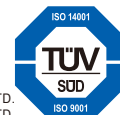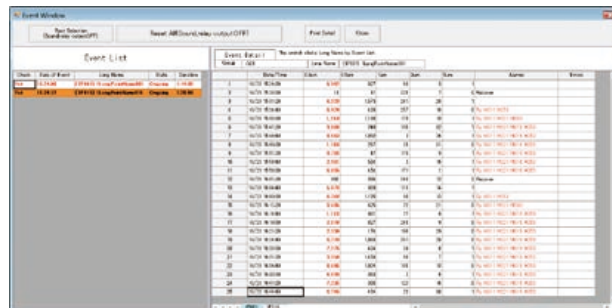## External configuration (unit : mm)

Front view   Side view   Top view

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＊ Specifications subject to change without notice.

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