



KQ-3001

Handheld Laser Airborne Particle Counter with Low Flow Rate of 2.83L/min

The KQ-3001 handheld laser airborne particle counter with low flow rate of 2.83L/min is a portable testing instrument applied in clean environment cleanliness detection. It is mainly used for the detection and metering of cleanroom cleanliness.

The product adopts a color LCD touchscreen, featuring small size, light weight, high detection accuracy, simple and clear function operation. Controlled by a computer, it can store and print sampling results, making it very convenient for testing clean environments.

This instrument is widely used in clean scenarios such as pharmaceuticals, electronics, hospital operating rooms, aerospace, and precision machining, and has the characteristics of good stability, high measurement accuracy, elegant appearance, and easy use.



Product Features

- 4.3-inch high-definition large screen with higher resolution and faster response, allowing users to intuitively read cleanliness data.
- User-friendly human-computer interaction with simple and direct operation, reducing user learning costs and improving user experience.
- Compact size for easy carrying.
- 10-year long service life imported semiconductor laser diode (calibration required annually)

Technical parameters

Model	KQ-3001
Particle Size Channels	0.3μm, 0.5μm, 1μm, 3μm, 5μm, 10μm
Sampling Flow Rate	2.83L/min±5%
Laser Source	10-year long service life imported semiconductor laser diode
Vacuum Source	Built-in vacuum source, 3-year service life
Calibration Specification	JJF1190-2008/ISO 21501-4
Repeatability Error	< ±5%
Particle Size Distribution Error	< ±20%
Maximum Sampling Concentration	35000 particles/L
Self-Purification Time	≤10min (counts are zero for 3 consecutive times within 10 minutes, 95% confidence level)
Sampling Cycle	User-defined (5~9999 seconds)
Sampling Delay	User-defined (1~100 seconds), interval 1-1800S
UCL Sampling Times	2~50
UCL Sampling Points (Locations)	2~50
Operating Time	Continuous testing for approximately 4 hours
Data Memory Capacity	1□5000 groups of measurement data (queryable)
Counting Mode	Cumulative count
Screen Display	4.3-inch color touchscreen
Printing Method	External Bluetooth printer (optional)
Charging Power Supply	AC220V/50Hz ~ DC 9V 1.4A
Built-in Lithium Battery	DC7.4V 3.4Ah
Charging Adapter	Input 100-240V 50Hz, Output 9V 1A
Battery Charging Time	6 hours
Cleanliness Level Judgment Standard	ISO14644-2015, ISO old, GMP static, GMP dynamic
Temperature and Humidity	Optional
Data Communication Interface	USB
Operating Environment	0~40°C, Relative Humidity 10~90%
Storage Environment	-30°C~45°C, Relative Humidity 0~90%
Dimensions (mm)	Length 230 * Width 130 * Height 60
Material	ABS engineering plastic
Weight (including battery)	0.9Kg



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