



KQ-4128A-100

Large-Particle Desktop Laser Airborne Particle Counter with Flow Rate of 100L/min

The KQET-4128A-100 large-particle desktop laser airborne particle counter with flow rate of 100L/min is a precision detection instrument independently developed by our company for the detection of cleanliness in clean environments. The instrument is based on the light scattering principle, the counter realizes the detection of airborne particle size distribution and the counting of particle quantity through photoelectric sensing technology. The instrument is widely used in clean scenarios where large particles are present, such as in the electronics, lithium battery, automotive, aerospace, precision processing, and food industries. It has good stability, high measurement accuracy, a grand appearance and is easy to use.



Product Features

- High sampling flow rate of 28.3L/min, improving sampling precision and efficiency.
- 7-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.
- Full 304 stainless steel body, meeting GMP specification requirements while maintaining aesthetics.
- Large-capacity data storage of 20,000 groups, supporting one-click PDF file export via USB flash drive for data download anytime and anywhere.
- Supports preset functions for 400 room points, enabling one-click selection and quick sampling.
- Supports 20-user management, password complexity management, and multi-level authority management.
- Supports audit trail and log management, which can be queried, traced, and controlled, complying with FDA 21CFR PART11 specifications.
- Supports custom switching between 6 channels/2 channels (0.5 μ m, 5.0 μ m).
- Supports calibration reminder function to prompt users for timely metering and ensure normal use of the instrument.
- 10-year long service life imported semiconductor laser diode (calibration required annually).
- On-screen data alarm, equipped with a flow sensor for real-time monitoring and automatic flow adjustment, ensuring flow stability and counting accuracy.
- Large-capacity high-quality lithium battery for longer battery life, supporting both AC and DC power supply.
- Expandable analog input hardware interfaces, allowing for external connections to temperature and humidity sensors, airspeed sensors, pressure differential sensors, etc. (optional)

Technical parameters

Model	The KQ-4128A-100
Particle Size Channels	5μm, 10μm, 20μm, 30μm, 50μm, 100μm
Sampling Flow Rate	100L/min±5%
Repeatability Error	±5%F.S
Self-Purification Time	≤5min
Sampling Cycle	1~9999s (adjustable)
Sampling Delay	0~999s (adjustable)
Sampling Times	1~999 times (adjustable)
Sampling Points	1~50 points (adjustable)
Preset Points	400 room points preset, one-click selection for quick sampling
Laser Source	10-year long service life imported semiconductor laser diode
Vacuum Requirement	Built-in vacuum source, 3-year service life
Screen Display	7-inch IPS touch color screen
Printing Method	Built-in thermal printing
Battery Life	≥5 hours
Data Storage	20,000 entries
Data Export	USB flash drive export, export format PDF
Data Security	20-user management, password complexity management, multi-level authority management
Audit Trail	Queryable, traceable, controllable, complying with FDA 21CFR PART11 specifications
Temperature and Humidity Detection	0~50°C, 0~100%RH (optional function)
Charging Power Supply	AC220V/50Hz
Built-in Lithium Battery	DC24V/15AH
Power	Input AC100-240V/50HZ, Output DC25.2V/5A
Enclosure	304 stainless steel
Dimensions (mm)	Width 244 * Depth 208 * Height 250
Weight (including battery)	6.5Kg
Operating Environment	Temperature 0~40°C, Humidity 10%~90% (no condensation)
Storage Environment	Temperature -10~50°C, Humidity 0~90% (no condensation)

Inject Soul Into The Cleanroom



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