



KQET-5128B

Large-Particle Remote Laser Airborne Particle Counter

The KQET-5128B large-particle remote airborne particle counter is a testing instrument designed for counting large particle sizes in clean environments.

This series of particle counters breaks the foreign monopoly and is built upon the principle of light scattering, utilizing photoelectric sensing technology to detect the size and count of airborne particles.

Compared to conventional high-flow particle counters, the KQET-5128B is capable of detecting significantly larger particles, measuring particle sizes in the 5 μ m to 100 μ m range. It is ideally suited for clean environments where large particles are present, such as in the electronics industry, lithium battery manufacturing, automotive plants, aerospace sectors, precision machining, and the food industry.



Product Features

- High-precision sensor, accurate counting, excellent performance
- Compact size for convenient installation
- 4.3-inch intelligent touchscreen, rapid response, human-machine interaction, real-time display of monitoring data.
- Can set its own instrument address directly on the screen for easy on-site replacement
- Calibration due alert to remind customers of metering/calibration
- Screen data alarm and real-time flow monitoring. When connected to an independent pump, it automatically adjusts the flow rate in real-time to ensure flow stability and counting accuracy.
- High sampling flow rate of 100L/min enhances sampling precision and efficiency
- 10-year service life imported semiconductor laser diode (calibration required annually)
- RS485 communication, supports Modbus RTU protocol, and customized communication protocols
- Intelligent IoT capabilities allow for remote start/stop, more accurate cleanliness level management, and enhanced monitoring quality
- USB data export functionality, effective local data storage for over a month to prevent data loss (optional)
- Real-time monitoring of particle quantities with particle sizes of 10 μ m, 50 μ m, 100 μ m, 150 μ m, 300 μ m, and 500 μ m
- Built-in audio-visual alarm light, >85db
- Counter can be equipped with a wireless antenna, upgraded to wireless transmission mode (optional)
- Expandable analog input hardware interfaces, allowing for external connections to temperature and humidity sensors, airspeed sensors, pressure differential sensors, etc. (optional)

Technical parameters

Model	KQET-5128B
Particle Size Range	10μm~500μm
Particle Size Channels	10μm, 50μm, 100μm, 150μm, 300μm, 500μm
Counting Efficiency	50%±10% @ 10μm;100%±10% > 15μm
Maximum Sampling Concentration	14000 particles/L, Concentration over-limit protection with self-purification reminder
Repeatability Error	±5%F.S
Self-Purification Time	≤5min
Sampling Flow Rate	100L±5%, real-time monitoring, over-limit alarm
Laser Source	10-year service life imported semiconductor laser diode
Vacuum Source	External vacuum source, 3-year service life
Display	4.3-inch touchscreen
Power Supply	DC24V/1A
Communication Mode	RS485 @ Modbus RTU
Enclosure	304 stainless steel
Dimensions (mm)	Width 213 * Depth 137 * Height 71
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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