



KQET-5018

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

The KQET-5018 series is a remote laser airborne particle counter with low flow rate of 2.83L, a testing instrument applied in the fields of cleanliness monitoring and micro-particle counting detection in clean environments.

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.

This instrument features visual calibration convenience, good stability, high measurement accuracy, small size, light weight, and easy installation. It is widely used in clean scenarios such as pharmaceutical, electronics, semiconductor, hospital operating rooms, aerospace, precision machining, environmental protection, microbiology, and food industries.



Product Features

- High-precision sensor, accurate counting, excellent performance, in line with JJF1190-2008 Specification
- Compact size for convenient installation
- 2.4-inch intelligent touchscreen, rapid response, human-machine interaction, real-time display of monitoring data.
- Built-in vacuum source with a 3-year long service life, low vibration, low noise, and stable performance to ensure stable counting
- More professional industrial design, ensuring complete functional interfaces while maintaining aesthetics
- Can be started/stopped locally independently, suitable for both standalone and online use
- 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 alarms and Equipped with a flow sensor for real-time monitoring and automatic adjustment of flow rate, ensuring flow stability and counting accuracy
- 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
- Expandable analog input hardware interfaces, allowing for external connections to temperature and humidity sensors, airspeed sensors, pressure differential sensors, etc. (optional)
- 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 0.5 μ m and 5.0 μ m; expandable to monitor 6 particle size ranges: 0.3 μ m, 0.5 μ m, 1 μ m, 3 μ m, 5 μ m, and 10 μ m
- Built-in audio-visual alarm light, >85db
- Expandable analog input hardware interfaces, allowing for external connections to temperature and humidity sensors, airspeed sensors, pressure differential sensors, etc. (optional)
- Counter can be equipped with a wireless antenna, upgraded to wireless transmission mode (optional)

Main Technical Specifications

Model	KQET-5018	KQET-5018M	KQET-5018G
Particle Size Range	0.2μm~10.0μm		
Particle Size Channels	0.5μm, 5.0μm	0.3μm, 0.5μm, 1.0μm, 3.0μm, 5.0μm, 10.0μm	0.2μm, 0.5μm, 1.0μm, 3.0μm, 5.0μm, 10.0μm
Particle Size Distribution Error	/ ≤ ±20% /		
Concentration Indication Error	0.5μm≤±20%FS		
Maximum Sampling Concentration	35000 particles/L, Concentration over-limit protection with self-purification reminder		
Repeatability Error	±5%FS		
Self-Purification Time	≤5min		
Sampling Flow Rate	2.83L±5%		
Laser Source	10-year service life imported semiconductor laser diode		
Vacuum Source	Built-in vacuum source, 3-year service life		
Display	2.4-inch touchscreen		
Power Supply	DC24V/1A		
Communication Mode	RS485 @ Modbus RTU / Ethernet @ Modbus TCP / Wireless Communication @ LoRa		
Calibration Specification	JJF1190-2008/ISO 21501-4		
Enclosure	304 stainless steel		
Dimensions (mm)	Width 94 * Depth 152 * Height 80		
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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