



KQET-5016

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

The KQET-5016 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 has been widely used in industries such as cleanroom testing, filter material testing, and mask testing. It features good stability, high measurement accuracy, small size, light weight, and easy installation.



Product Features

- High-precision sensor, accurate counting, excellent performance, in line with JJF1190-2008 Specification
- Compact size for convenient installation
- Built-in vacuum source with a 3-year long service life, low vibration, low noise, and stable performance to ensure stable counting
- 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)
- 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
- 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-5016	KQET-5016M
Particle Size Range	0.3μm~10.0μm	
Particle Size Channels	0.5μm, 5.0μm (default)	0.3μm, 0.5μm, 1.0μm, 3.0μm, 5.0μm, 10.0μm
Particle Size Distribution Error	/	≤±30%
Concentration Indication Error	0.5μm≤±20%FS	
Maximum Sampling Concentration	35000 particles/L	
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	
Power Supply	DC24V/1A	
Communication Mode	RS485 @ Modbus RTU	
Calibration Specification	JJF1190-2008/ISO 21501-4	
Enclosure	304 stainless steel	
Dimensions (mm)	Width 100 * Depth 158 * Height 68	
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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