



KQET-5106L

Remote Laser Airborne Particle Counter with High Flow Rate of 28.3L/min

The KQET-5106L built-in pump remote laser airborne particle counter with high flow rate of 28.3L, is 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.

Compared with low flow rate counters, this instrument has a higher sampling flow rate of 28.3L/min, enabling more accurate detection, and is suitable for Class 100 and Class 10 clean environments. It is applicable to clean scenarios such as electronics, semiconductors, liquid crystal panels, pharmaceuticals, aerospace, precision machining, hospitals, and research institutes.



Product Features

- High-precision sensor, accurate counting, excellent performance, in line with JJF1190-2008 Specification
- Integrated design, easy installation
- Built-in vacuum source with a 3-year long service life, low vibration, low noise, and stable performance to ensure stable counting
- High sampling flow rate of 28.3L/min enhances sampling precision and efficiency
- More professional industrial design, ensuring complete functional interfaces while maintaining aesthetics
- 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
- 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
- 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-5106L	KQET-5106LM
Particle Size Range	0.3μm~10.0μm	
Particle Size Channels	0.5μm, 5.0μm(默认)	0.3μm, 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	28.3L/min±5%, real-time monitoring, over-limit alarm	
Sampling Cycle	1-9999s (configurable)	
Continuous Operation	Supports 24-hour uninterrupted stable operation	
Laser Source	10-year service life imported semiconductor laser diode	
Vacuum Source	Built-in vacuum source, 3-year service life	
Power Supply	DC24V/4A	
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 270 * Depth 188 * Height 119	
Weight	2.6kg	
Operating Environment	Temperature 0~40°C, Humidity 10%~90% (no condensation)	
Storage Environment	Temperature -10~50°C, Humidity 0~90% (no condensation)	

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