



KQET-5104

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

The KQET-5104 series is a 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 has become an essential instrument for pharmaceutical factory GMP certification.

Similarly, this instrument can also be applied to other clean scenarios such as electronics, hospital operating rooms, aerospace, precision machining, and food industries. It features 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
- 2.4-inch intelligent touchscreen, rapid response, human-machine interaction, real-time display of monitoring data.
- High sampling flow rate of 28.3L/min enhances sampling precision and efficiency
- 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 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.
- 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
- USB data export functionality, effective local data storage for over a month to prevent data loss (optional)
- Expandable analog input hardware interfaces, allowing for external connections to temperature and humidity sensors, airspeed sensors, pressure differential sensors, etc. (optional)
- Built-in audio-visual alarm light, >85db
- Counter can be equipped with a wireless antenna, upgraded to wireless transmission mode (optional)

Technical parameters

Model	KQET-5104	KQET-5104M
Particle Size Range	0.3 μ m~10.0 μ m	
Particle Size Channels	0.5 μ m, 5.0 μ m	0.3 μ m, 0.5 μ m, 1.0 μ m, 3.0 μ m, 5. μ m, 10.0 μ m
Particle Size Distribution Error	/	$\leq \pm 20\%$
Concentration Indication Error	0.5 μ m $\leq \pm 20\%$ FS	
Maximum Sampling Concentration	35000 particles/L, Concentration over-limit protection with self-purification reminder	
Repeatability Error	$\pm 5\%$ FS	
Self-Purification Time	≤ 5 min	
Sampling Flow Rate	28.3L $\pm 5\%$, real-time monitoring, over-limit alarm	
Laser Source	10-year long 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	
Calibration Specification	JJF1190-2008/ISO 21501-4	
Enclosure	304 stainless steel	
Dimensions (mm)	197 * Depth 137 * Height 61	
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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Suzhou Kangqi Environment Technology Co.,Ltd

Tel: 400-728-7728

Web: www.kqet.com.cn

E-mail: sales@kqet.com.cn

Add: 2nd Floor, Building E, No.60 Chuangye Street, Suzhou High tech Zone