



KQET-5128CL

Large-Particle Built-in Pump Remote Laser Airborne Particle Counter with Flow Rate of 28.3L/min

The KQET-5128CL large-particle built-in pump remote laser airborne particle counter with flow rate of 28.3L/min is a testing instrument designed for counting comprehensive particle sizes in clean environments.

Innovatively breaking away from conventional approaches, this counter is built upon the principle of light scattering, utilizing photoelectric sensing technology to detect the size and count of airborne particles.

Compared to standard particle counters, this instrument offers an extended detection range—capable of measuring particles as small as 0.5 μ m and as large as 50 μ m. It is suitable for clean environments in industries such as electronics, lithium batteries, automotive, aerospace, precision machining, and food processing, where large particles may be present. This device not only addresses cleanliness assessment challenges handled by traditional particle counters but also resolves complex issues in process points where large particles are a concern.



Product Features

- High-precision sensor, accurate counting, excellent performance
- Integrated design, easy installation
- 4.3-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
- 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
- Local data storage for over one month to prevent data interruption, with data export via backend software (optional).
- Real-time monitoring of particle quantities with particle sizes of 0.5 μ m, 1.0 μ m, 5.0 μ m, 10 μ m, 25 μ m, and 50 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-5128CL
Particle Size Range	0.5μm~50μm
Particle Size Channels	0.5μm, 1.0μm, 5.0μm, 10μm, 25μm, 50μm(Customizable)
Maximum Sampling Concentration	35000 particles/L, concentration over-limit protection and prompt for instrument self-purification
Repeatability Error	±5%F.S
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
Display	4.3-inch touchscreen
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 250 * Depth 160 * Height 115
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)

Inject Soul Into The Cleanroom



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