ZR-1630 Airborne Particle Counter (1CFM)

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Overview

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ZR-1630 Airborne Particle Counter is a portable precision particle counter. The instrument uses light scattering method to measure the particle size and quantity in the air which the particle size is 0.3µm~10.0 µm. Mainly used in cleanroom / operating room monitoring and verification, filter testing, IAQ investigation, data center cleaning and other fields.

ZR-1630 Particle Counter is 6 channels, built in HEPA filter and Vacuum pump. The flow stable at 1CFM(28.3L/min).





ISO 14644-9:2022 Cleanrooms and associated controlled environments

ISO 21501-4:2023: Light Scattering Airborne Particle Counter for Clean Spaces

JIS B 9921:2010 Light scattering airborne particle counter for clean spaces

GMP

02





Package



1m Silicon Tube



Tripod



Isokinetic sampling head



Gas collection nozzle



Power cord

- Built in vacuum pump, the flow is stably controlled at 1CFM (28.3L/min).
- ✓ Collect and measure particles with 6 sizes (0.3µm~10.0µm) at the same time.
- Constant speed sampling can measure temperature and humidity.
- Self contained battery≥6h.
- Built in printer. Real time storage of sampling data, export data by USB.
- Automatic alarm when the concentration exceeds the set value.
- Built in HEPA filter to filter exhaust gas, self purification time ≤ 5 minutes.
- ✓ User friendly, can select standard according to requirement. (CN GMP, EU GMP, ISO 14644).
- Calculate UCL (Ultra Cleanliness Level) automatically. (ISO 14644)
- Audit Tracing & assign permissions to users, further guarantee data integrity.
- Preset sampling mode, which can be assigned to clean-rooms in different areas.



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	Parameter	Range
Technical Parameter	Particle size	0.3、0.5、1.0、3.0、5.0、10.0μm
	Counting efficiency	0.3µm: 50%±20%; >0.5µm: 100%±10%
	Maximum concentration	≥7.4 X 10 ⁵ pcs/ft³ (2.6 X 10 ⁷ pcs/m³) coincidence loss
	Light source	laser diode
	Sampling flowrate	1CFM(28.3L/min), Error±2%FS
	Sampling volume	0.47 L~28300L
	zero count	<1 count / 5min
	Sampling mode	 Manual or automatic Accumulated count, partition count Concentration mode and number mode UCL calculation
	Sampling time and frequency	
	Sampling output	Built in HEPA filter (>99.97%@0.3µm)
	Sampling mode/area/room/points	Can preset 90 rooms, 1000 locations, and 60 formulas
	Alarm prompt	Sound and light alarm: particle count exceeding limit, low battery, equipment abnormality, etc
	Data storage	8GB, can store approximately 100000 sets of data
	Working condition	(-20~50) °C , ≤85%RH
	Communication	USB, WIFI, Bluetooth, RS485
	Power Supply	AC(100 ~240)V, (50~60)Hz
	Battery working time	≥6 hours
	Size	(L240×W265×H265) mm
	Weight	About 6.2kg
	Power Consumption	80W