



# Dust particle counter

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# Dust particle counter

DS-CL020



## Product Introduction:

The DS-CL020 intelligent dust particle counter's confidence measurement verification standard automatically determines the purification level according to the conditions specified in the national standard and calibration specification. A single sampling can simultaneously measure the number of dust particles in six particle size channels, and display the number and variation of particles in the six particle size channels simultaneously.

## Applicable scope:

Meet the needs of the pharmaceutical industry (pharmaceutical factories, drug testing centers, hospital operating rooms, etc.); The electronics industry (semiconductor factories, production and processing of precision machinery, etc.); The food hygiene industry (precision processing of dairy products, plastic sealed meat products, seasoned foods, agricultural products, etc.); The manufacturer of the filter, inspecting the quality and efficiency of the filter, etc; The inspection of clean rooms (areas) required for precision machining and precision testing in the fields of optics, aerospace, etc.

## Characteristics of DS-CL020 Dust Particle Counter

1. Android version 7.1 provides a better user interaction experience.
2. Built in temperature and humidity sensors, environmental pressure sensors
3. The core component of the light scattering sensor significantly eliminates stray light in the cavity, greatly improving the signal-to-noise ratio. This makes the measurement more accurate and reliable.
4. Calculated at a 95% confidence level (UCL), the counting results can be converted into  $m^3$  and  $ft^3$
5. According to the classification and regulations of purification levels, the purification level is automatically determined and convenient to use.
6. Equipped with audit tracking function, searchable, traceable, and controllable, in compliance with FDA 21CFR PART11 specifications
7. Supports WiFi and Bluetooth transmission, and data can be uploaded wirelessly; At the same time, it supports copying data from a USB drive and does not require driver insertion or removal.
8. Configure a supervision platform, and the detection results can be directly transmitted wirelessly to the platform for long-term and short-term analysis of cleanliness, assisting management.
9. Equipped with a new generation of high-speed thermal printer, it can select the desired particle size channel for flexible printing results.
10. Dual purpose AC/DC, built-in rechargeable lithium battery, environmentally friendly and durable, can support continuous sampling for more than 6 hours.

## Technical :

Model	DS-CL020
Sampling volume:	2.83L/min (0.1cfm)
Six particle size channels:	0.3, 0.5, 1.0, 3.0, 5.0, 10.0 ( μ M)
Self purification time:	≤ 10min
Particle size distribution error:	0.5um 5um ≤ ± 30%
Particle concentration indication error:	0.5um ≤ ± 30%
Measurement repetition relative deviation:	≤ ± 10%
Usage environment:	Working environment 15-35 °C, 10-85% RH
Sampling period:	can be set arbitrarily from 1 second to 99 minutes
Sampling delay:	≤ 99s
Measurement interval:	≤ 999s
Sampling method:	single, ≤ 99 times (self determined), continuous
Alarm level:	Class100~Class300000
Light source:	Imported semiconductor laser diode (with a lifespan greater than 30000 hours)
Screen display method:	7-inch color touch screen
Charging time:	2 hours
Design working time:	8 hours
Average power:	7.5W
Built in battery:	74Wh (16.8V/5Ah)