



Handheld Laser Particle Counter MODEL P311

Airy Technology P311's large color display shows cumulative and differential particle counts of 3 particle sizes simultaneously. The small and middle particle ranges can easily be changed by a user. P311's maximum concentration of 4,000,000 particles/ft³ and up to 8,000 data set record capabilities are the highest in the market. Data can be checked on the unit display and/or easily downloaded to your PC via USB cable and saved as a CSV file which is transferable to Excel. P311 is accurate, dependable, user friendly, compact and light weight.

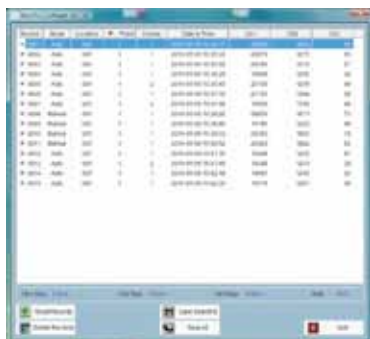
Applications

- ISO Cleanroom Certification (ISO Class 4>)
- Point Measurements at Cleanrooms
- Particle Source Investigation
- Filter Testing
- Indoor Air Quality Investigations
- Quality Control

Features

- Three Channel Particle Counter
 - channel 1: 0.3/0.5 μ m
 - channel 2: 0.5/1.0/2.0/2.5 μ m
 - channel 3: 5.0 μ m
- Large Color Display
- Cumulative and Differential Count
- Maximum Concentration: 4,000,000 particles / ft³
- Data Download Software Included
- USB for Data Download
- Buffer Memory: 8,000 Records
- View Saved Data on the Display
- Measure by Count, /m³, or /ft³

Software Screen



Large Color Display



Streamlined & Lightweight



Specifications

Size Range	0.3 -5.0 μm
Channel Sizes	Channel 1: 0.3/0.5 μm ; Channel 2: 0.5/1.0/2.0/2.5 μm ; Channel 3: 5.0 μm
Counting Efficiency	50% at 0.3 μm ; 100% for particles > 0.45 μm (per JIS)
Concentration Limits	4,000,000 particles / ft ³ at 5% coincidence loss
Light Source	Laser diode
Zero Count Level	<1 count / 5 minutes Meets JIS B9921
Flow Rate	0.1 CFM (2.83 LPM)
Calibration	NIST traceable
Sample Probe/Tubing	Isokinetic sampling probe, probe for tubing
Sampling Modes	Manual, automatic and ISO*
Sampling Time	1 second to 99 minutes 59 seconds (Configurable)
Sampling Frequency	1 to 1999 cycles or continuous (Configurable)
Sample Output	Internal HEPA filter
Vacuum Source	Internal pump
Communication Mode	USB
Data Storage	8000 sample records
Display	3.5-inch 320 x 240 Color LCD
Power	DC 5V 1A (Mini USB TYPE-B)
Battery	4 x AA
Battery Life	Up to 4.5 hours of continuous use (LCD Backlight low, Included Ni-MH Battery)
Dimensions (L x W x H)	178x90x47mm (without isokinetic inlet)
Weight	480g (without battery)
Standards	CE, JIS B9921, ISO 21501-4
Warranty	1 year limited warranty
Operating Conditions	5° to 35°C 20% to 95%RH non-condensing
Storage Conditions	-20° to 50°C Up to 98%RH non-condensing

* ISO 5-9 @ 0.3-5.0 μm excluding ISO 5 @ 5.0 μm

Included Accessories AC Adaptor, Isokinetic Inlet, USB Cable, Zero Filter, Software, 4 x AA Batteries with Charger, Calibration Certificate, Quick Guide, Operating Manual on CD, Carrying Case



CAUTION

All specifications are subject to change without notice. For safe and trouble-free operations, please read the "Operation Manual" carefully before using the instruments.