



# 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 middle particle range can easily be changed by a user. P311's maximum concentration of 4,000,000 particles/ft<sup>3</sup> and up to 8,000 data set record capabilities is 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 CVS file which is transferable to Excel. P311 is accurate, dependable, user friendly, compact and light weight.

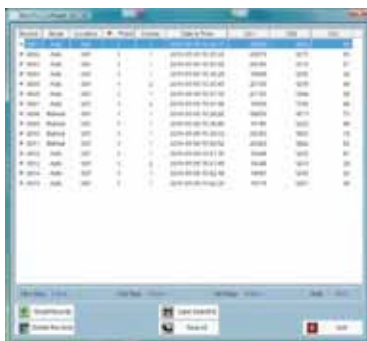
## Applications

- 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
  - 0.3 µm
  - 5.0 µm
  - Selectable Middle Channel: 0.5, 1.0, 2.0, or 2.5 µm
- Large Color Display
- Cumulative and Differential Count
- Maximum Concentration: 4,000,000 particles / ft<sup>3</sup>
- Data Download Software Included
- USB for Data Download
- Buffer Memory: 8,000 Records
- View Saved Data on the Display
- Measure by Count, /m<sup>3</sup>, or / ft<sup>3</sup>

Software Screen



Large Color Display



Streamlined & Lightweight



## Specifications

<b>Size Range</b>	0.3 -5.0 $\mu\text{m}$
<b>Channel Sizes</b>	0.3 $\mu\text{m}$ and 5.0 $\mu\text{m}$ fixed; 0.5, 1.0, 2.0, or 2.5 $\mu\text{m}$ selectable middle channel
<b>Counting Efficiency</b>	50% at 0.3 $\mu\text{m}$ ; 100% for particles > 0.45 $\mu\text{m}$ (per JIS)
<b>Concentration Limits</b>	4,000,000 particles / ft <sup>3</sup> at 5% coincidence loss
<b>Light Source</b>	Laser diode
<b>Zero Count Level</b>	<1 count / 5 minutes Meets JIS B9921
<b>Flow Rate</b>	0.1 CFM (2.83 LPM)
<b>Calibration</b>	NIST traceable
<b>Sample Probe/Tubing</b>	Isokinetic sampling probe, probe for tubing
<b>Sampling Modes</b>	Manual, automatic and ISO Class 4>
<b>Sampling Time</b>	1 second to 99 minutes 59 seconds (Configurable)
<b>Sampling Frequency</b>	1 to 1999 cycles or continuous (Configurable)
<b>Sample Output</b>	Internal HEPA filter
<b>Vacuum Source</b>	Internal pump
<b>Communication Mode</b>	USB
<b>Data Storage</b>	8000 sample records
<b>Display</b>	3.5-inch 320 x 240 Color LCD
<b>Power</b>	DC 5V 1A (Mini USB TYPE-B)
<b>Battery</b>	4 x AA
<b>Battery Life</b>	Up to 4.5 hours of continuous use (LCD Backlight low, for 2400mAh Ni-MH Battery)
<b>Dimensions (L x W x H)</b>	178x90x47mm (without isokinetic inlet)
<b>Weight</b>	480g (without battery)
<b>Standards</b>	JISB9921, ISO 21501-4
<b>Warranty</b>	1 year limited warranty
<b>Operating Conditions</b>	5° to 35°C 20% to 95%RH non-condensing
<b>Storage Conditions</b>	-20° to 50°C Up to 98%RH non-condensing

**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.