



# 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.

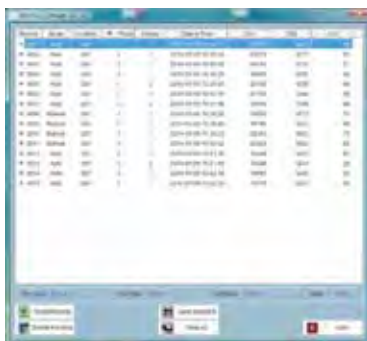
## Applications

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

## Features

- > Selectable Range ; 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
- > Superior Maximum Concentration; 4,000,000p/cf
- > Large Color Display
- > Cumulative and Differential Count
- > Data Download Software
- > USB for Data Download and Power
- > Streamlined & Lightweight
- > Great Energy Conservation
- > User Friendly, Easy Operation

Software Screen



Large Color Display

AUTO	0012 / 8000		05:00
▲▼ CNT	Σ		Δ
0.3 $\mu\text{m}$	4936	3701	
0.5 $\mu\text{m}$	1235	1165	
5.0 $\mu\text{m}$	70	70	
LOC 001	CYCLES 00/01		
STIME 00:10	INT 00:10		
START	Stopped	MENU	

Streamlined & Lightweight



## Specifications

<b>Size Range</b>	0.3 -5.0 µm
<b>Channel Sizes</b>	0.3 µm and 5.0 µm fixed; 0.5, 1.0, 2.0, or 2.5 µm selectable middle channel
<b>Counting Efficiency</b>	50% at 0.3 µm; 100% for particles > 0.45 µm (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°C to 35°C 20% to 95%RH non-condensing
<b>Storage Conditions</b>	-20°C 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

**Optional Accessories** Carrying Case, Tripod



### 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.