

Handheld particle counter

Model P311



The Airy Technology P311 is used to measure particle size of 0.3-5.0 μm at a flow rate of 0.1 CFM (2.83 LPM).

The handheld particle counter weighs just 1.26 lb (0.57 kg) and features a user-friendly design with easy setup. It displays data from three size channels simultaneously on its 3.5-inch LCD screen.

The Airy Technology P311 can store up to 8,000 sampling records and view data locally or via USB cable on a computer. Certified under ISO 21501-4 standards, it comes with a one-year warranty. As a premium handheld particle counter, the P311 combines excellent quality, reliable performance, and remains the most cost-effective choice in the market today.

Features and advantages

- The measurement range is 0.3~5.0 μm
- Particle flow rate 0.1 CFM (2.83 LPM)
- Measure 3 channel data simultaneously
- Only 1.26 lb (0.57 kg)
- Long life laser diode
- USB output
- Removable and rechargeable AA batteries
- Includes suitcase, battery charger and download software
- It can store up to 8,000 sampling records and 199 sampling sites
- View data on the screen or through a computer
- Large LCD display
- Concentration limit 4,000,000/ cubic foot
- Complies with ISO 21501-4 and JIS B9921 standards
- Lightweight high intensity injection plastic shell
- Easy to clean and wipe
- 1 year warranty



It weighs just 1.26 lbs

Large color display

AUTO		
▲▼ CNT		
	Σ	Δ
0.3 μm	4936	3701
0.5 μm	1235	1165
5.0 μm	70	70
LOC. 001	CYCLES 00/01	
STIME 00.10	INT 00.10	
START	Stopped	MENU

Software screens

Date	Time	Location	0.3 μm	0.5 μm	5.0 μm
2010-01-01	08:00	001	4936	1235	70
2010-01-01	08:05	001	4936	1235	70
2010-01-01	08:10	001	4936	1235	70
2010-01-01	08:15	001	4936	1235	70
2010-01-01	08:20	001	4936	1235	70
2010-01-01	08:25	001	4936	1235	70
2010-01-01	08:30	001	4936	1235	70
2010-01-01	08:35	001	4936	1235	70
2010-01-01	08:40	001	4936	1235	70
2010-01-01	08:45	001	4936	1235	70
2010-01-01	08:50	001	4936	1235	70
2010-01-01	08:55	001	4936	1235	70
2010-01-01	09:00	001	4936	1235	70
2010-01-01	09:05	001	4936	1235	70
2010-01-01	09:10	001	4936	1235	70
2010-01-01	09:15	001	4936	1235	70
2010-01-01	09:20	001	4936	1235	70
2010-01-01	09:25	001	4936	1235	70
2010-01-01	09:30	001	4936	1235	70
2010-01-01	09:35	001	4936	1235	70
2010-01-01	09:40	001	4936	1235	70
2010-01-01	09:45	001	4936	1235	70
2010-01-01	09:50	001	4936	1235	70
2010-01-01	09:55	001	4936	1235	70
2010-01-01	10:00	001	4936	1235	70



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Specifications parameters

range of sizes	0.3~5.0 µm
Channel dimensions	Channel 1:0.3/0.5µm; Channel 2:0.5/1.0/2.0/2.5µm; Channel 3: 5.0µm
counting yield	50% (0.3 µm); 100% (greater than 0.45 µm) (according to JIS)
concentration limit	4,000,000 particles per cubic foot, 5% loss of weight
illuminant	Long life laser diode
Zero count level	<1 (Count/5 minutes) (according to JIS B9921)
Size resolution	<15% (0.5 µm) (according to ISO 21501-4)
Flow control	Automatic traffic control
demarcate	NIST traceability
Sampling probe/tube	Wait for rapid sampling probe or sampling tube
sampling configuration	Manual, Automatic, ISO 1, Accumulate/Differential, Count/Concentration
dwelt time	1 second to 99 minutes and 59 seconds (configurable)
frequency of sampling	1 to 1,999 cycles or continuous (configurable)
Sampling output	Internal HEPA filter
Vacuum source	Built-in pumps
communication interface	USB
data storage	8,000 sampling records
display screen	3.5" (8.9 cm) 320 x 240 LCD
source	DC 5V 1A (Mini USB TYPE-B)
cell	Removable AANi-MH
Size (L x W x H)	7" x 3.5" x 1.9" (17.8 cm x 9 cm x 4.7 cm) Not including probe
weight	1.26 lb (.57 kg)
operative norm	ISO 21501-4 and JIS B9921
Quality Assurance	1 year
going	5° ~35°C, 20% ~95%RH non-condensing
storage condition	-20° ~ 50°C, relative humidity upper limit up to 98% RH, non-condensing
Accompanying accessories	Operation manual CD, AC adapter, constant speed inlet, sampling tube probe, USB cable, Self-cleaning filter, data download software, 4 x AA batteries (with charger), calibration certificate and suitcase

1 0.3-5.0 µm at ISO 5-9 excluding ISO 5 at 5.0 µm

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