



Handheld Laser Particle Counter MODEL P311

Model 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 5-9)
- Point Measurements at Cleanrooms
- Particle Source Investigation
- Filter Testing
- Indoor Air Quality Investigations
- Quality Control

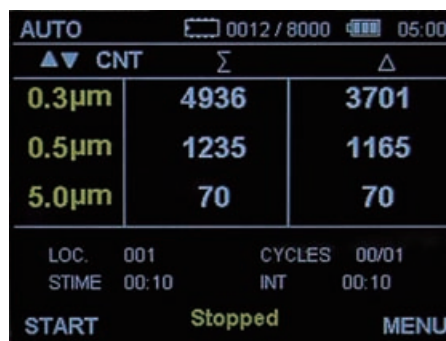
Features

- Three Channel Particle Counter
 - channel 1: 0.3/0.5 µm
 - channel 2: 0.5/1.0/2.0/2.5 µm
 - channel 3: 5.0 µm
- 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



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Specifications

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| 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 / ft3 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°C to 35°C 20% to 95%RH non-condensing |
| Storage Conditions | -20°C 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.

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