



### 8303 Handheld Airborne Particle Counter

The Particles Plus 8303 Handheld Particle Counter measures 0.3  $\mu\text{m}$  to 25.0  $\mu\text{m}$  with a flow rate of 0.1 CFM (2.83 LPM).

Easy to configure, this instrument displays up to 3 user-selectable size channels as well as (optional) temperature and relative humidity. View data and generate ISO 14644-1, EU GMP Annex 1 or FS 209E reports. Export to Particles Plus data-software. The 8303 also has a mass concentration mode that approximates density in  $\mu\text{g}/\text{m}^3$ .

All Particles Plus counters meet ISO 21501-4 and JIS B9921. The 8303 ensures compliance with an on-board pulse height analyzer.

#### Features and Benefits

- Measures 0.3  $\mu\text{m}$  to 25.0  $\mu\text{m}$
- 0.1 CFM (2.83 LPM) flow rate
- Long life laser diode technology
- Measures up to 3 channels of simultaneous data
- Approximates mass concentration in  $\mu\text{g}/\text{m}^3$
- Integrated handle for one-handed operation
- Large easy-to-use icon driven color touch screen display
- Stores up to 45,000 sample records, 1,000 sample locations and 50 recipes
- Easy configuration and transferable from instrument to instrument
- Connect using USB or (optional) Ethernet, Wireless 802.11 b/g
- Displays reports for ISO 14644-1, EU GMP Annex 1 and FS 209E
- Internal audible alarm
- User-definable reports
- User-selectable channel sizes
- Complies with ISO 21501-4 and JIS B9921 standards
- Easy to clean and wipe down with minimal particle traps
- Seamless integration into a facility monitoring system
- Lightweight high-impact injection molded plastic enclosure
- 1 year warranty. Extended warranties available.

#### Optional Features and Benefits

- Temperature and relative humidity probe
- Ethernet, Wireless 802.11 b/g, RS485 or RS232 output
- USB memory interface
- Advanced graphing
- Additional 3 size channels
- External printer



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**Specifications**

Model	8303
Size Range	0.3 to 25µm
Size Channels	Factory calibrated at 0.3, 0.5 and 5.0 µm with user-selectable midsized channel
Flow rate	0.1 CFM (2.83 LPM)
Concentration Limit	4,000,000 Particles/ft <sup>3</sup> @ 5% coincidence loss
Battery Run Time	10 hours
Light Source	Long life laser diode
Counting Efficiency	50% @ 0.3 µm; 100% for particles >0.45 µm per JIS
Zero Count	<1 count / 5 minutes (<2 particles / ft <sup>3</sup> ) (per ISO 21501-4 & JIS)
Count Modes	Automatic, manual, real-time meter; cumulative/differential, mass concentration, count or concentration
Count Alarms	1 to 9,999,999 counts
Calibration	NIST traceable
Display	4.3" (10.9 cm) WQVGA (480x272) color touch screen
Printer (Optional)	External thermal printer
Vacuum Source	Internal pump with automatic flow control
Filtered Exhaust	Internal HEPA filter
Number of Channels	3
Custom Size Channels	Calibration for custom size channels available
Audible Alarm	Adjustable built-in alarm
Battery	Removable Li-ion
Battery Recharge Time	4 hours within instrument (<2 hours with external battery charger)
Reports	ISO 14644-1, EU GMP Annex 1, FS 209E
Recipes	50 user-configurable recipes
Communication Modes	USB
Optional Communication Mode	Ethernet, Wireless 802.11 b/g, RS485 or RS232
Alarm	Alarms on counts for all particle sizes, low battery, sensor failure, environmental sensors and flow
Standards	ISO 21501-4 and JIS B9921
Calibration	Recommended minimum once per year
External Surface	High impact injection molded plastic
Dimensions (L x W x H)	10" x 5" x 4.5" (25.4 cm x 12.9 cm x 11.4 cm) includes handle and does not include probes
Weight	2.2 lb (1.0 kg)
Accessories	Quick start guide, operating manual on USB flash drive, isokinetic probe, purge filter, battery, data download software, USB cable, power supply & cable
Optional Accessories	Printed manual, carrying case, spare battery, external battery charger, external printer, isokinetic probes and temperature relative humidity sensor,
Buffer Memory	45,000 sample records (rotating buffer) including particle count data, environmental data, locations and times. Scrollable on screen or printout
Sample Locations	Up to 1,000 locations 20 characters long
Sample Time	1 second to 99 hours
Power	110 to 240 VAC 50/60 Hz universal in-line power supply
Operating Conditions	41° to 104°F (5° to 40°C) / 20% to 95% non-condensing
Storage Conditions	32° to 122°F (0° to 50°C) / Up to 98% non-condensing
Warranty	1 Year. Extended warranties available.

Patent Pending

Particles Plus, Inc. reserves the right to change specifications without notice.  
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