

7501 Remote Airborne Particle Counter 0.1 CFM (2.83 LPM)

The Particles Plus 7501 Remote Particle Counter measures 0.5 μ m to 25 μ m with a flow rate of 0.1 CFM (2.83 LPM) and is the most versatile remote particle counter available. The 7501 can be used as a stand-alone battery operated instrument or it can be easily integrated into a building automation and cleanroom management system via Ethernet, USB or (optional) Wireless 802.11 b/g, RS485 or RS232.

The 7501 reports and displays 6 user-selectable particle size channels, as well as temperature and relative humidity, flow and sensor status, date of last calibration, serial number, laser on-time and date of manufacture for easy maintenance and warranty management.

View data and generate ISO 14644-1, EU GMP Annex 1 or FS 209E reports on screen or via printer, USB key, real time through its versatile output options or export to Particles Plus data-download software. Particles Plus counters can be controlled and monitored remotely via web browser.

The 7501 particle counter stores up to 45,000 time stamped particle count and environmental data records which provides data redundancy on every instrument. The 7501 also has a mass concentration mode that approximates density in $\mu g/m^3$.

All Particles Plus counters meet ISO 21501-4 and JIS B9921. The 7501 ensures compliance with an on-board pulse height analyzer.

Features and Benefits

- Measures 0.5 μm to 25 μm
- 0.1 CFM (2.83 LPM) flow rate
- Long life laser diode technology
- Measures up to 6 channels of simultaneous data
- Approximates mass concentration in μg/m³
- Large easy-to-use icon driven color touch screen display
- Temperature and relative humidity probe included
- Stores up to 45,000 sample records, 1,000 sample locations and 50 recipes
- Easy configuration and transferable from instrument to instrument
- Connect using Ethernet, USB or (optional) Wireless 802.11 b/g, RS485 or RS232
- Static or dynamic IP address (DHCP)
- Displays and externally prints 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
- · Light weight stainless steel enclosure
- 2 year warranty. Extended warranties available





Specifications

Model	7501
Size Range	0.5 to 25 μm
Size Channels	Factory calibrated at 0.5, 0.7, 1.0, 3.0, 5.0, 10.0 µm variable binning
Flow rate	0.1 CFM (2.83 LPM)
Concentration Limit	4,000,000 Particles/ft³ @ 5% coincidence loss
Battony Run Timo	10 hours

Light Source		Battery Run Time 10 hours
Count Modes	Light Source	Long life laser diode
Count Modes Automatic, manual, real-time meter, cumulative/differential, mass concentration, count or concentration Count Alarms I to 9,999,999 count NIST traceable Display 4.3" (10.9 cm) WQVGA (480x272) color touch screen Printer (Optional) Optional external thermal printer available. Prints in all available languages. Ayacuum Source Internal pump with automatic flow control Filtered Exhaust Internal HEPA filter Number of Channels 6 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 Ethernet and USB Optional Communication Modes Wireless 802.11 b/g, R5485 or R5232 Environmental Sensor Includes temperature and relative humidity probe 32° to 122°F (0° to 50°C) ±1°F (0.5°C), 15-90% ±2% relative humidity Alarm Alarms on counts for all particle sizes, low battery, sensor failure, environmental sensors and flow Standards ISO 21501-4 and JIS 89921 External Surface Stainless steel Dimensions (L xW xH) S2" x4.15" x8.25" (13.3 cm x 10.5 cm x 21 cm) includes barb fittings Weight Alo (18 kg) Accessories Quick start guide, operating manual on USB flash drive, isokinetic probe, temperature relative humidity sensor, purge filter, battery, data download software, USB cable, power supply & cable Optional Accessories Printed manual, spare battery, external battery charger, external printer and isokinetic probes Buffer Memory 4,5000 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 I second to 99 hours Power 110 to 240 VAC 50/60 Hz universal in-line power supply Operating Conditions 32° to 122°F (0° to 50°C) / Up to 98% non-condensing	Counting Efficiency	50% @ 0.5 μm; 100% for particles >0.75 μm per JIS
Calibration NIST traceable Nisplay 4.3" (10.9 cm) WQVGA (480x272) color touch screen Printer (Optional) Optional external thermal printer available. Prints in all available languages. Vacuum Source Internal pump with automatic flow control Filtered Exhaust Internal HEPA filter Number of Channels 6 Custom Size Channels Calibration for custom size channels available Audible Alarm Adjustable built-in alarm Battery Removable Li-ion Battery Removable Li-ion Battery Recharge Time 4 hours within instrument (<2 hours with external battery charger) Recopts ISO 1464-1, EU GMP Annex 1, FS 209E Recipes 50 user-configurable recipes Communication Modes Ethernet and USB Optional Communication Modes Wireless 802.11 b/g, RS485 or RS232 Environmental Sensor Includes temperature and relative humidity probe 32" to 122°F (0° to 50°C) ±1°F (0.5°C), 15-90% ±2% relative humidity Alarm Alarms on counts for all particle sizes, low battery, sensor faillure, environmental sensors and flow Standards ISO 21501-4 and JIS 89921 Calibration Recommended minimum once per year External Surface Stainless steel Dimensions (L×W×H) 5:2" x 4,15" x 8,25" (13.3 cm x 10.5 cm x 21 cm) includes barb fittings Weight 4 lb (1.8 kg) Accessories Quick start guide, operating manual on USB flash drive, isokinetic probe, temperature relative humidity sensor, purge filter, battery, data download software, USB cable, power supply & cable Optional Accessories Printed manual, spare battery, external battery charger, external printer and isokinetic probes 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 I second to 99 hours First 10.00 Feet	Zero Count	<1 count / 5 minutes (<2 particles /ft³) (per ISO 21501-4 & JIS)
Calibration A]ST traceable	Count Modes	Automatic, manual, real-time meter, cumulative/differential, mass concentration, count or concentration
Display 4.3" (10.9 cm) WQVGA (480x272) color touch screen	Count Alarms	I to 9,999,999 counts
Printer (Optional) Internal HEPA filter Number of Channels	Calibration	NIST traceable
Vacuum Source Internal pump with automatic flow control	Display	4.3" (10.9 cm) WQVGA (480x272) color touch screen
Filtered Exhaust Internal HEPA filter Number of Channels 6 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 Ethernet and USB Optional Communication Modes Wireless 802.11 b/g, RS485 or RS232 Environmental Sensor Includes temperature and relative humidity probe 32° to 122°F (0° to 50°C) ±1°F (0.5°C), 15-90% ±2% relative humidity 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 Stainless steel Dimensions (L x W x H) 5.2" x 11.5" x 8.25" (13.3 cm x 10.5 cm x 21 cm) includes barb fittings Weight 4 lb (1.8 kg) Accessories Quick start guide, operating manual on USB flash drive, isokinetic probe, temperature relative humidity sensor, purge filter, battery, data download software, USB cable, power supply & cable Optional Accessories Printed manual, spare battery, external battery charger, external printer and isokinetic probes Buffer Memory 45,000 sample records (rotating buffer) including particle count data, environmental data, locations and times. Scrolable on screen or printout Sample Locations Up to 1,000 locations 20 characters long Sample Time I second to 99 hours Power II0 to 240 VAC 50/60 Hz universal in-line power supply Operating Conditions 32° to 122°F (0° to 50°C) / Up to 98% non-condensing	Printer (Optional)	Optional external thermal printer available. Prints in all available languages.
Number of Channels 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 Wircless 802 11 b/g, RS485 or RS232 Environmental Sensor Includes temperature and relative humidity probe 32° to 122°F (0° to 50°C) ±1°F (0.5°C), 15-90% ±2% relative humidity 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 Stainless steel Dimensions (L x W x H) S2" x +1.5" x 8.25" (13.3 cm x 10.5 cm x 21 cm) includes barb fittings Weight 4 lb (1.8 kg) Accessories Quick start guide, operating manual on USB flash drive, isokinetic probe, temperature relative humidity sensor, purge filter, battery, data download software, USB cable, power supply & cable Optional Accessories Printed manual, spare battery, external battery charger, external printer and isokinetic probes 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 32° to 122°F (0° to 50°C) / Up to 98% non-condensing	Vacuum Source	Internal pump with automatic flow control
Custom Size Channels Adiustable built-in alarm Battery Removable Li-ion Reports ISO 14644-1, EU GMP Annex 1, FS 209E Recipes Communication Modes Christophanication Modes Christophanication Modes Ethernet and USB Environmental Sensor Includes temperature and relative humidity probe 32° to 122°F (0° to 50°C) ±1°F (0.5°C), 15-90% ±2% relative humidity 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 Stainless steel Dimensions (L x W x H) 5.2" x 4.15" x 8.25" (13.3 cm x 10.5 cm x 21 cm) includes barb fittings Weight 4 lb (1.8 kg) Accessories Quick start guide, operating manual on USB flash drive, isokinetic probe, temperature relative humidity sensor, purge filter, battery, data download software, USB cable, power supply & cable Optional Accessories Printed manual, spare battery, external battery charger, external printer and isokinetic probes 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 I second to 99 hours Power 110 to 240 VAC 50/60 Hz universal in-line power supply Operating Conditions 32" to 122°F (0" to 50°C) / Up to 98% non-condensing	Filtered Exhaust	Internal HEPA filter
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 Ethernet and USB Optional Communication Modes Wireless 802.11 b/g, RS485 or RS232 Environmental Sensor Includes temperature and relative humidity probe 32° to 122°F (0° to 50°C) ±1°F (0.5°C), 15-90% ±2% relative humidity 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 Stainless steel Dimensions (L xW x H) 5.2" x 4.15" x 8.25" (13.3 cm x 10.5 cm x 21 cm) includes barb fittings Weight 4 lb (1.8 kg) Accessories Quick start guide, operating manual on USB flash drive, isokinetic probe, temperature relative humidity sensor, purge filter, battery, data download software, USB cable, power supply & cable Optional Accessories Printed manual, spare battery, external battery charger, external printer and isokinetic probes 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 I second to 99 hours Power 110 to 240 VAC 50/60 Hz universal in-line power supply Operating Conditions 32° to 122°F (0° to 50°C) / Up to 98% non-condensing	Number of Channels	6
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 Ethernet and USB Optional Communication Modes Wireless 802.11 b/g, RS485 or RS232 Environmental Sensor Includes temperature and relative humidity probe 32° to 122°F (0° to 50°C) ±1°F (0.5°C), 15-90% ±2% relative humidity 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 Stainless steel Dimensions (L x W x H) 5.2" x 4.15" x 8.25" (13.3 cm x 10.5 cm x 21 cm) includes barb fittings Weight 4 lb (1.8 kg) Accessories Quick starr guide, operating manual on USB flash drive, isokinetic probe, temperature relative humidity sensor, purge filter, battery, data download software, USB cable, power supply & cable Optional Accessories Printed manual, spare battery, external battery charger, external printer and isokinetic probes 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 I second to 99 hours Power 110 to 240 VAC 50/60 Hz universal in-line power supply Operating Conditions 32° to 122°F (0° to 50°C) / Up to 98% non-condensing	Custom Size Channels	Calibration for custom size channels available
Battery Recharge Time 4 hours within instrument (<2 hours with external battery charger) Reports ISO 14644-I, EU GMP Annex I, FS 209E Recipes 50 user-configurable recipes Communication Modes Ethernet and USB Optional Communication Modes Wireless 802.11 b/g, RS485 or RS232 Environmental Sensor Includes temperature and relative humidity probe 32° to 122°F (0° to 50°C) ±1°F (0.5°C), 15-90% ±2% relative humidity 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 Stainless steel Dimensions (L × W × H) 5.2" x 4.15" x 8.25" (13.3 cm × 10.5 cm × 21 cm) includes barb fittings Weight 4 lb (1.8 kg) Accessories Quick start guide, operating manual on USB flash drive, isokinetic probe, temperature relative humidity sensor, purge filter, battery, data download software, USB cable, power supply & cable Optional Accessories Printed manual, spare battery, external battery charger, external printer and isokinetic probes 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 I second to 99 hours Power 1110 to 240 VAC 50/60 Hz universal in-line power supply Operating Conditions 32° to 122°F (0° to 50°C) / Up to 98% non-condensing	Audible Alarm	Adjustable built-in alarm
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Recipes 50 user-configurable recipes	Battery Recharge Time	4 hours within instrument (<2 hours with external battery charger)
Communication Modes Ethernet and USB Optional Communication Modes Wireless 802.11 b/g, RS485 or RS232 Environmental Sensor Includes temperature and relative humidity probe 32° to 122°F (0° to 50°C) ±1°F (0.5°C), 15-90% ±2% relative humidity 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 Stainless steel Dimensions (L x W x H) 5.2" x 4.15" x 8.25" (13.3 cm x 10.5 cm x 21 cm) includes barb fittings Weight 4 lb (1.8 kg) Accessories Quick start guide, operating manual on USB flash drive, isokinetic probe, temperature relative humidity sensor, purge filter, battery, data download software, USB cable, power supply & cable Optional Accessories Printed manual, spare battery, external battery charger, external printer and isokinetic probes 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 I second to 99 hours Power I10 to 240 VAC 50/60 Hz universal in-line power supply Operating Conditions 32° to 122°F (0° to 50°C) / Up to 98% non-condensing	Reports	ISO 14644-1, EU GMP Annex 1, FS 209E
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Accessories Quick start guide, operating manual on USB flash drive, isokinetic probe, temperature relative humidity sensor, purge filter, battery, data download software, USB cable, power supply & cable Optional Accessories Printed manual, spare battery, external battery charger, external printer and isokinetic probes 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 I second to 99 hours Power I10 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	Dimensions $(L \times W \times H)$	5.2" x 4.15" x 8.25" (13.3 cm x 10.5 cm x 21 cm) includes barb fittings
purge filter, battery, data download software, USB cable, power supply & cable Optional Accessories Printed manual, spare battery, external battery charger, external printer and isokinetic probes 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 I second to 99 hours Power I10 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	Weight	4 lb (1.8 kg)
Optional Accessories Printed manual, spare battery, external battery charger, external printer and isokinetic probes 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 I second to 99 hours Power I 10 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	Accessories	Quick start guide, operating manual on USB flash drive, isokinetic probe, temperature relative humidity sensor,
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and times. Scrollable on screen or printout Sample Locations Up to 1,000 locations 20 characters long Sample Time I second to 99 hours Power I 10 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	Optional Accessories	Printed manual, spare battery, external battery charger, external printer and isokinetic probes
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Sample TimeI second to 99 hoursPowerI 10 to 240 VAC 50/60 Hz universal in-line power supplyOperating Conditions41° to 104°F (5° to 40°C) / 20% to 95% non-condensingStorage Conditions32° to 122°F (0° to 50°C) / Up to 98% non-condensing		and times. Scrollable on screen or printout
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	Sample Locations	Up to 1,000 locations 20 characters long
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	Sample Time	I second to 99 hours
Storage Conditions 32° to 122°F (0° to 50°C) / Up to 98% non-condensing	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
Warranty 2 Years. Extended warranties available.	Storage Conditions	32° to 122°F (0° to 50°C) / Up to 98% non-condensing
	Warranty	2 Years. Extended warranties available.





