8506-20 and 8506-30 Handheld Airborne Particle Counters for Large Particles 0.1 CFM (2.83 LPM)



- Counts particles up to 55.0 µm (8506-20) and 75.0 µm (8506-30)
- Industry's highest concentration of 30,000,000 particles/ft³ @ 10% coincidence loss
- Ideal for use in research, industrial health and safety, and indoor air quality applications
- >10 hours continuous operation on a fully charged battery
- Industry's first Sleep Mode and Power Conservation Mode with Intelligent Battery
- The most comprehensive internal self-diagnostics of any handheld particle counter
- Real-Time Meter detects particle contamination sources with visual and audible indication
- Internet of Things (IoT) communication allows for network or cloud-based data options



The Particles Plus[®] 8506-20 and 8506-30 Handheld Particle Counters measure 0.5 to 55.0 μ m (Model 8506-20), and 0.5 to 75.0 μ m (Model 8506-30), with a flow rate of 0.1 CFM (2.83 LPM). Easy to configure, these instruments display up to 6 userselectable size channels as well as temperature and relative humidity. 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[®] Instrument Management Software. Particles Plus[®] counters can be controlled and monitored remotely via web browser. The mass concentration mode approximates density in μ g/m³ and allows for density and refractive index corrections to ensure accuracy.

All Particles Plus[®] counters meet ISO 21501-4 and JIS B9921. The 8506-20 and 8506-30 ensure compliance with an on-board pulse height analyzer.

Features and Benefits

- Model 8506-20: Measures 0.5 to 55.0 μm
- Model 8506-30: Measures 0.5 to 75.0 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 with density and refractive index corrections
- Integrated handle for one-handed operation
- 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
- Annotation function allows user to save 32 character notations to a sample record
- Remote diagnostics allows for remote service investigation through the internet
- Easy configuration and transferable from instrument to instrument
- Connect using Ethernet, USB or (optional) Wireless 802.11 b/g, RS 485 or RS232
- Displays user-definable reports for ISO 14644-1, EU GMP Annex 1 and FS 209E
- Internal audible alarm with comprehensive alarm management
- 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
- 2 year limited warranty. Extended warranties available.

Specifications

Models	8506-20 8506-30
Size Range	0.5 to 55 μm 0.5 to 75.0 μm
Size Channels	Factory calibrated at 0.5, 1.0, 2.5, 5.0, 10.0, 20.0 µm variable binning Factory calibrated at 0.5, 1.0, 2.5, 5.0, 10.0, 30.0 µm variable binning
Flow rate	0.1 CFM (2.83 LPM)
Concentration Limit	15,000,000 Particles/ft ³ @ 10% coincidence loss
Counting Efficiency	50% @ 0.5 μm; 100% for particles >0.75 μm per JIS
Battery Run Time	>10 hours
Light Source	Long life laser diode
Zero Count	<1 count / 60 minutes (<1 particles / 6 ft³)
Count Modes	Real-Time Meter and graph, cumulative/differential count/m ³ and count/ft ³ , and mass concentration (PM)
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 available
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 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) Wireless 802.11 b/g, RS485 or RS232.
Environmental Sensor	Includes Temperature and relative humidity probe 32° to 122°F (0° to 50°C) \pm 1°F (0.5°C), 15-90% \pm 2% relative humidity
Alarm	Alarms on counts for all particle sizes, sensor failure, environmental sensors and flow
Standards	ISO 21501-4 and JIS B9921
Instrument Calibration	Recommended minimum once per year
External Surface	High impact injection molded plastic
Dimensions (L x W x H)	5.12" x 4.25" x 12.26" (13.0 cm x 10.8 cm x 31.1 cm) includes handle and does not include probes
Weight	2.2 lb (1.0 kg)
Accessories	Operating manual and IMS software on USB flash drive, isokinetic probe, temperature relative humidity sensor, purge filter, battery, USB cable, power supply and cable
Optional Accessories	Printed manual, carrying case, spare battery, external battery charger, external printer, isokinetic probes, barb fittings, and IMS-RT monitoring system
Buffer Memory	45,000 sample records (rotating buffer) including particle count data, environmental data, locations, annotations, 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	2 year limited warranty. Extended warranties available.

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LOCATIONS

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PARTICLES

PLUS®

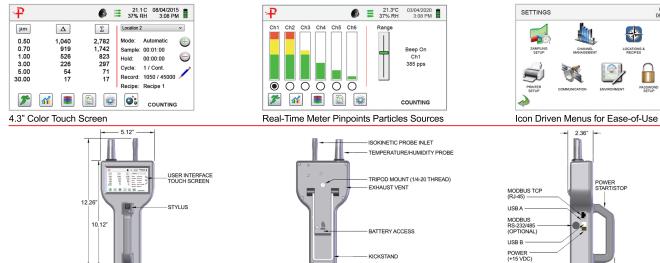
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PASSWOP



CE Made in USA

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