

8506-20 and 8506-30 Handheld Airborne Particle Counters for Large Particles

- Counts particles up to 55.0 μm (8506-20) and 75.0 μm (8506-30)
- Industry's highest concentration of 15,000,000 particles/ft³ @ 10% coincidence loss
- Ideal for use in research, industrial health & 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

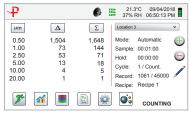


The Particles Plus 8506-20 and 8506-30 Handheld Particle Counters measure 0.5 to 55.0 μ m (Model 8506-20), and 0.5 to 75.0 μ m (Model 8506-30), with a flow rate of 0.1 CFM (2.83 LPM). Easy to configure, these instruments display up to 6 user-selectable size channels as well as temperature and relative 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 data-download 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.

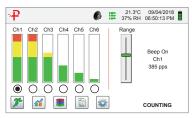
All Particles Plus counters meet ISO 21501-4 and JIS B9921. The 8506-20 and 8506-30 ensure compliance with an on-board pulse height analyzer.

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 and externally prints reports for ISO 14644-1, EU GMP Annex 1 & FS 209E
- Internal audible alarm with comprehensive alarm management
- User-definable reports including ISO-14644, EU GMP Annex 1, and FS 209E
- 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 warranty. Extended warranties available.



4.3" Color Touch Screen



Real-Time Meter Pinpoints Particle Sources



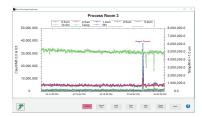
Configurable Environmental Sensor Display



Simultaneous Display of Multiple PM Sizes



Icon Driven Menus for Ease-of-Use



Control, & Manage from a Remote Device

Specifications

| Model | 8506-20 | 8506-30 |
|------------------------------------|--|---|
| Size Range | 0.5 to 55.0 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/ft³ @ 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 / 5 minutes (<2 particles/ft³) (per ISO 21501-4 & JIS) | |
| Count Modes | Real-Time Meter & graph, cumulative/differential count/m³ & count/ft³, and mass concentration (PM) | |
| Count Alarms | I 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 | 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 Mode | 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, low battery, sen | sor 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 $(L \times W \times H)$ | 10" x 5" x 4.5" (25.4 cm x 12.9 cm x 11.4 cm) include | es handle and does not include probes |
| Weight | 2.2 lb (1.0 kg) | |
| Accessories | Operating manual and IMS software on USB flash drive purge filter, battery, data download software, USB cable | e, isokinetic probe, temperature relative humidity sensor, e, power supply & cable |
| Optional Accessories | Printed manual, carrying case, spare battery, external battery charger, external printer and isokinetic probes, IMS-RT monitoring system | |
| 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 | 41° to 104°F (5° to 40°C) / 20% to 95% non-condensir | ng |
| Storage Conditions | 32° to 122°F (0° to 50°C) / Up to 98% non-condensing | |
| Warranty | 2 Years. Extended warranties available. | |

Patents US 9,140,638, US 9,140,639, US 9,157,847, US 9,158,652, US 9,677,990. Additional Patents Pending.

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