8506-30 Handheld Airborne Particle Counter

0.1 CFM (2.83 LPM)



- Counts particles up to 75.0 µm
- Industry's highest concentration of 15,000,000 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® 8506-30 Handheld Particle Counter measures 0.5 to 75.0 μ m with a flow rate of 0.1 CFM (2.83 LPM). Easy to configure, this instrument displays 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 8506-30 ensures compliance with an on-board pulse height analyzer.

Features and Benefits

- 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

Flow rate

 Models
 8506-30

 Size Range
 0.5 to 75.0 μm

Size Channels Factory calibrated at 0.5, 1.0, 2.5, 5.0, 10.0, 30.0 µm

variable binning 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 / 60 minutes (<1 particles / 6 ft³)

Count Modes Real-Time Meter and graph, cumulative/differential count/m³ and count/ft³, 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 Ethemet 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) ±1°F (0.5°C),

15-90% ±2% relative humidity

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,

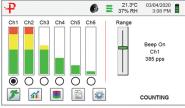
annotations, and times. Scrollable on screen or printout.

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.



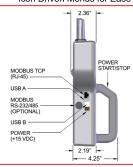




4.3" Color Touch Screen Real-Time Meter Pinpoints Particles Sources







PAT. https://particlepatents.com/ Additional Patents Pending.

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