8303 Handheld Airborne Particle Counter

0.1 CFM (2.83 LPM)

- Ideal for use in research, industrial health and safety, indoor air quality, and cleanroom applications
- Up to 10 hours continuous operation on a fully charged battery
- 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

The PMT® 8303 Handheld Particle Counter measures 0.3 to 25.0 µm 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 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 IMS (*Instrument Management Software*) data-download software. PMT® counters can be controlled and monitored remotely via web browser. The 8303 has a mass concentration mode that approximates density in µg/m³.

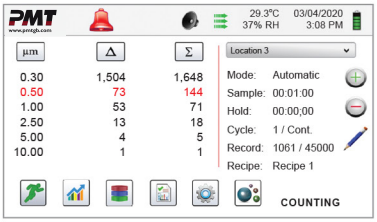
All PMT® counters meet ISO 21501-4 and JIS B9921. The 8303 ensures compliance with an on-board pulse height analyzer.

Features and Benefits

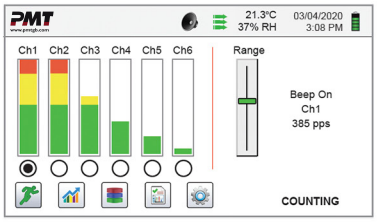
- Measures 0.3 µm to 25.0 µm
- 0.1 CFM (2.83 LPM) flow rate
- Long life laser diode technology
- Measures up to 3 channels of simultaneous data
- Approximates mass concentration in µg/m³ with density and refractive index corrections
- Integrated handle for one-handed operation
- Large easy-to-use icon driven color touch screen display
- Temperature and relative humidity probe optional
- 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,
- 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
- Lightweight high-impact injection molded plastic enclosure
- 5 year warranty.

Specifications

Model	8303
Size Range	0.3 to 25 µm
Size Channels	Factory calibrated at 0.3, 0.5, 1.0 µm variable binning
Flow rates	0.1 CFM (2.83 LPM)
Concentration Limits	15,000,000 particles/ft³ @ 10% coincidence (per ISO 21501-4), 30,000,000 particles/ft³ @ 10% coincidence (as tested and validated)
Battery Run Time	>10 hours continuous operation
Light Source	Long life laser diode
Counting Efficiency	50% @ 0.3 µm; 100% for particles >0.45 µm per JIS
Zero Count	<1 count / 60 minutes (<1 particles / 6 ft³). No fault count subtraction.
Count Modes	Real-Time Meter and graph, cumulative/differential count/m³and count/ft³, and mass concentration (PM)
Count Alarms	1 to 9,999,999 counts
Display	4.3″ (10.9 cm) WQVGA (480×272) 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	3
Custom Size Channels	Calibration for custom size channels available
Audible Alarm	Adjustable built-in alarm
Battery	Removable Li-ion (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
Environmental Sensor	Includes temperature 32º to 122ºF (0º to 50ºC) ±1ºF (0.5ºC) and relative humidity probe 15-90% ±2%
Alarm	Alarms on counts for all particle sizes, sensor failure, environmental sensors and flow
Standards	ISO 21501-4 and JIS B9921
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, filter, battery, USB cable, power supply, calibration certificate
Optional Accessories	Printed manual, carrying case, spare battery, external battery charger, external printer and isokinetic probes, barbed fittings, temperature relative humidity sensor
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	41º to 104ºF (5º to 40ºC) / 20% to 95% non-condensing
Storage Conditions	32º to 122ºF (0º to 50ºC) / Up to 98% non-condensing
Warranty	5 year warranty | Blower warranty : 1 year
Calibration frequency	Recommended minimum once per year
Calibration	NIST traceable

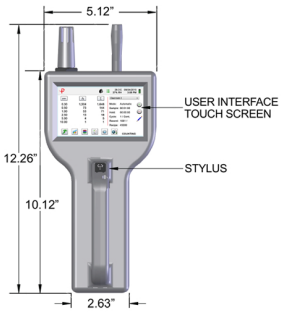


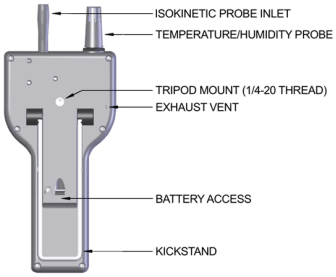
Audible and Visual Alarm Management

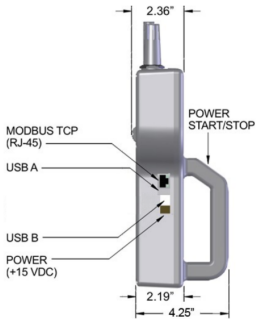


Real-Time Meter Pinpoints Particles Sources

Icon Driven Menus for Ease-of-Use







PMT. behält sich das Recht vor, Spezifikationen ohne vorherige Ankündigung zu ändern. Wenden Sie sich für weitere Informationen an info@pmt.eu oder Ihren örtlichen PMT Händler.

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