

HandiLaz® Mini

Handheld Airborne Particle Counter



The HandiLaz® Mini particle counter is ergonomically designed to fit in the palm of your hand. The Mini is rugged and dependable, providing tremendous value for cost-conscious users who want a reliable, easy-to-use, handheld particle counter.

FEATURES

- Simultaneously sizes and counts particles in three fixed channels
- Sizing sensitivities of 0.3, 0.5, and 5.0 μm
- Sample flow rate of 0.1 ft^3/min (2.83 L/min)
- Quiet pump with flow control
- Power supply for dedicated use, batteries for mobile use
- Stores data for up to 10,000 samples
- Five different sampling modes
- Data output via RS-232C or RS-485
- Data download software included
- One year warranty
- External printer optional
- 4 standard AA-sized, high capacity, quick change, rechargeable NiMH batteries
- IQ/OQ validation documentation included



BENEFITS

Cost Effective

- Low-cost alternative for spot monitoring
- Versatile; useful for many applications
 - ISO certification
 - Counts up to 2,000,000 particles/ ft^3
- Low cost of ownership
- Batteries allow for remote use with minimal downtime
- Diode laser eliminates need for frequent cleaning

Convenient, Easy-to-Use

- Particle measurements made in seconds
- Intuitive, easy-to-learn user interface
- Interfaces directly by cable with optional printer or PC
- Easy CSV data transfer to Excel
- Quick and easy leak detection

Compact and Portable

- Fits easily in palm of your hand
- Weighs only 1.5 lb (0.68 kg)
- Uses standard AA batteries to provide easy mobility, extended testing periods, reduced costs, and simplified repurchasing

APPLICATIONS

- Conducting ISO certification of cleanrooms
- Detecting local particle sources
- Point-of-use measurements in cleanrooms
- Filter testing and leak detection
- Portable particle counting

Without measurement there is no control.

HandiLaz® Mini

Handheld Airborne Particle Counter

specifications

Channel thresholds	3 channels: 0.3, 0.5, and 5.0 µm
Flow rate	0.1 ft ³ /min (2.83 L/min)
Light source	Laser diode
Calibration particles	NIST-traceable particles
Max. concentration	up to 2,000,000/ft ³ (@ 5% coincidence error)
Zero count	< 1 per 5 min (JIS, Japanese Industrial Standards)
Counting efficiency	50% ± 20% @ 0.3 µm (meets JIS for first channel)
Sample output filter	None
Communication modes	RS-232C or RS-485; RJ11 connector; RS-485 via cascade connection only
Communications protocol	9600 bps Baud rate
User interface & display	Keypad; LCD: 4 lines, 20 letters
Data display modes	Counts, Counts/m ³ , Counts/ft ³
Sampling modes	Single, Repeated, Continuous, Calculation, and ISO (calculations for 0.5 and 5.0 µm)
ISO Certification	ISO 5 – 8 @ 0.5 and 5.0 µm
Key internal software features	Hotkey, Autostart, Sample, Display, Uplink, Print, Clear, and Alarms
Standard reports	(from optional external printer) Single, Repeated, or Continuous sampling modes, plus Calculation or ISO mode
Error messages (real-time)	Exceeds Concentration Limits, Exceeds Alarm Limits, Laser Power, Low Battery, Printer Buffer, Flow Rate
External software	Downloads CSV file
Data storage	Up to 10,000 samples; Calculations take 2 spaces
Data security	Cannot edit stored data; cannot delete individual records
External surface:	ABS (plastic resin)
Appropriate cleaning materials	Methanol or neutral detergents
Dimensions (w, h, d)	4.3 x 7.6 x 2.7 in (11 x 20 x 7 cm)
Weight	1.5 lb (0.68 kg) without batteries
Power	AC adapter: 100 – 240 VAC, 50/60 Hz
Batteries	4 standard, rechargeable AA NiMH batteries (1.2 VDC; 2100 mA)
Operating time on battery	3 hr
Battery recharging	External charger
Operating temperature	50 – 95 °F (10 – 35 °C); Operating humidity 0 – 85%, non-condensing
Standard accessories	Isokinetic sampling probe, AC adapter and cord, zero filter, Operator's Manual, 4 AA NiMH rechargeable batteries, PC cable, stand, and CSV data download software
Optional accessories	External printer, printer paper, carrying case, and tripod

HandiLaz® is a registered trademark of Particle Measuring Systems.
Particle Measuring Systems, Inc. reserves the right to change specifications without notice.

AUTHORIZED REPRESENTATIVE



Particle Measuring Systems Headquarters
5475 Airport Blvd., Boulder, CO 80301, USA
Tel: +1 303 443-7100 +1 800 238-1801

FAX: +1 303 449-6870

Instrument Service & Support: +1 800-557-6363

Customer Response Center: +1 877-475-3317

PMS EMEA
Tel: +44 1684 581 000
Email: PMSEMEA@pmeasuring.com

Particle Measuring Systems France
Tel: +33 160 10 32 96
Email: PMSFrance@pmeasuring.com

Particle Measuring Systems Germany
Tel: +49 2222 9299 522
Email: PMSGermany@pmeasuring.com

Particle Measuring Systems Italia
Tel: +39 06 9053 0130
Email: PMSSRL@pmeasuring.com

Particle Measuring Systems Nordic
Tel: +45 707 028 55
Email: PMSNordic@pmeasuring.com

Particle Measuring Systems China
Tel: +86 21 6113 3600
Email: pmschina@pmeasuring.com

Particle Measuring Systems Japan
Tel: +81 3 5298 8175
Email: PMSJapan@pmeasuring.com

Particle Measuring Systems Singapore
Tel: +65 6496 0330
Email: PMSSingapore@pmeasuring.com

Particle Measuring Systems Brazil
Tel: +55 11 5188 8166
Email: PMSBrazil@pmeasuring.com

Particle Measuring Systems Mexico
Tel: +52 55 2271 5106
Email: PMSMexico@pmeasuring.com

Particle Measuring Systems Puerto Rico
Tel: +1 787 718 9096
Email: PMSPuertoRico@pmeasuring.com