

HandiLaz™ 301

Hand-Held Airborne Particle Counter

The HandiLaz laser particle counter from Particle Measuring Systems is ergonomically designed to fit in the palm of your hand. The HandiLaz counter is very rugged and offers true portability while retaining the features and sensitivity of larger particle counters.



BENEFITS

Cost Effective

- Provides low cost alternative for spot monitoring
- Versatile and useful for many applications
- Low cost of ownership - uses a solid state laser diode for reliability and ruggedness
- Measures temperature and relative humidity
- Interchangeable batteries allow for continuous use with no down time

Easy to Use

- Intuitive user-interface that is easy to learn
- Windows®-based software (optional) includes FS-209E and ISO standard calculations
- Offers choice of 4 languages for display
- Interfaces directly to a PC or printer with optional cable
- Easy transfer of data to Excel or other analysis programs

Compact and Portable

- Weighs 2.2 lb. / 1 kg
- Fits easily in the palm of your hand
- Utilizes a high capacity, fast charge, interchangeable battery for extended testing periods and easy mobility

FEATURES

- Particle measurements made in seconds
- Sizing sensitivities from 0.3 - 5.0 µm
- Sample flow rate of 0.1 cfm / 2.8 lpm
- Weighs 2.2 lb. / 1 kg
- Counts and sizes particles in four fixed channels
- Stores up to 500 sets of data in memory
- Battery operated for mobility
- Built-in communications interface
- Interchangeable batteries with fast recharge time
- Multilingual - English, German, French, and Spanish
- Rugged - type tested for HALT (Highly Accelerated Life Testing)

APPLICATIONS

- Localize particle sources
- Point-of-use measurements within cleanrooms
- Dust monitoring in the environment
- Performing cleanroom particle checks
- Mobile particle counting
- Filter testing and leak detection

Without measurement, there is no control.



**PARTICLE
MEASURING
SYSTEMS**
www.pmeasuring.com

HandiLaz

Size sensitivity:	0.3 microns at 50% counting efficiency
Input flow rate:	0.1 cfm / 2.83 lpm
Size channels:	0.3, 0.5, 1.0, 5.0 microns
Light source:	Laser diode
Concentration limits:	1 x 10 ⁶ per cubic foot instantaneous
Coincidence loss:	5% at 500,000 particles per cubic foot
Zero count:	<1 per cubic foot
Factory calibration:	Mono-dispersed polystyrene latex spheres (NIST traceable)
Display:	Four line liquid crystal
Outputs:	RS-232C to personal computer or printer via optional cable
Location labels:	Manual entry
Data storage:	500 samples, rotating buffer
Sample time:	User-selectable from 1 second to 99 minutes
Purge time:	User-selectable from 1 second to 99 minutes
Delay time:	User-selectable from 1 second to 99 minutes
Count alarms:	Up to 10 ⁶ counts per channel
Geiger function:	Audible indication of count rate with user-selectable size channels
External surface:	KYDEX [®]
Battery:	Rechargeable NiMH pack; charge time: 2 hours
Environment:	Temperature: 4-35 °C / Humidity: non-condensing
Power requirements:	Built-in battery pack or 100-240 VAC 50/60Hz with external power supply
Size (h, w, d):	8.5" x 4.5" x 2.5", 21.5 x 10 x 6 cm (nominal)
Weight:	2.2 lb. / 1 kg

Optional HandiLaz System

Temp/RH probe

Attachable sensor allows TRH monitoring over the range -10 to 60 °C (+/-0.6 °C) and 10% to 90% RH (+/-5%). Sensor element recoverable after swabbing.

Zero count filter

0.2 micron zero count filter for checking backgrounds

Software

For retrieving data from counter memory into a PC, providing control through a PC and running cleanroom standard calculations

Carrying case

For easy transport for the counter plus accessories

Spare battery pack

To facilitate continuous battery availability

External battery charger

Provides fast and intelligent recharging for the interchangeable battery pack

External printer

Thermal printer, 40 columns normal, 80 columns condensed



Measurement to cleanroom standards

When used with optional Windows-based software, all the classifications required to determine ISO 14644, Fed. Std. 2090E and BS-5295 calculations are performed. Remote operation through the RS-232 permits measurements to be performed through a personal computer.

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Windows[®] is a registered trademark of the Microsoft Corporation.

AUTHORIZED REPRESENTATIVE



Registration applies to the Boulder, Colorado facility



marketing@pmeasuring.com

Particle Measuring Systems Headquarters
5475 Airport Blvd., Boulder, CO 80301
(303)443-7100 1-800-238-1801 FAX: (303)546-7331
Instrument Service & Support: 1-800-557-6363
Customer Response Center: 1-877-475-3317

Particle Measuring Systems Europe
Enigma Business Park
Groewood Road, Malvern, Worcestershire, WR14 1XZ, UK
Tel: +44 (0)1684-581000 FAX: +44 (0)1684-560337

Particle Measuring Systems Japan
5F Kanda Grow Bldg., 1-34-4 Kandasuda-cho, Chiyoda-ku, Tokyo 101-0041
Tel: 813-5298-8175 FAX: 813-3255-8155

Particle Measuring Systems Singapore
31 Kaki Bukit Road 3, #06-04/05, Techlink, Singapore 417818
Tel: (65) 8460-500 FAX: (65) 8460-700

Particle Measuring Systems China
B-1, 21/F, Phase 2, East Ocean Center, No. 618 East Yan An Road, Shanghai 200001
Tel: 86-21-53855332 ext.118 FAX: 86-21-63758139