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DATASHEET

ApexZ particle counters

Lighthouse

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ApexZ
AIRBORNE PARTICLE COUNTER

The state-of-the-art portable **ApexZ** elevates your environmental monitoring programs with a comprehensive set of integrated features.

Its integrated self-diagnostics system ensures accurate, reliable performance along with a flexible data management system that streamlines analysis and reporting.

Weighing in as the lightest and smallest portable air particle counter on the market, **ApexZ** enhances mobility and multi-location recording; and its cutting-edge technology serves as a timeless solution for contamination control strategies.

Features

- 0.3-10.0µm or 0.5-25.0µm Particle Size Channels
- 1.0 CFM or 100 LPM Available Flow Rates
- 2 Year Warranty
- 21 CFR Part 11 Compliant
- Advanced Self-Diagnostics
- Bi-Directional Integration into LIMS EM System
- Built-In Cleanroom Certification Reports
- Hot-Swappable Smart Batteries
- Sealed Chemically Compatible Enclosure
- VHP Compatible Sensor and Housing



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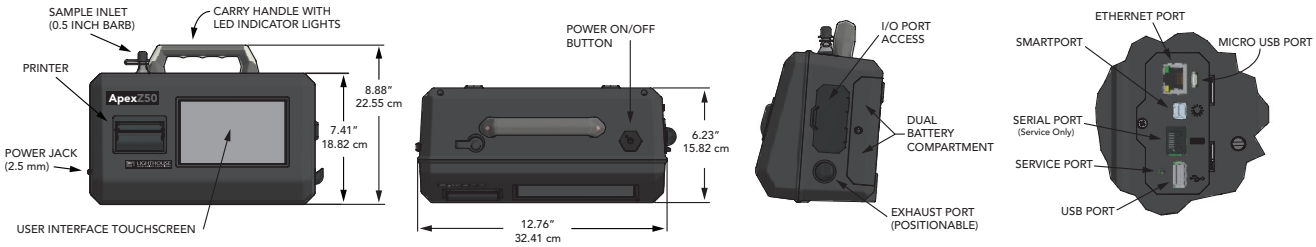
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ApexZ

AIRBORNE PARTICLE COUNTER



	ApexZ3	ApexZ50
Minimum Size Detection	0.3µm	0.5µm
Standard 6 Channel Sizes	0.3µm | 0.5µm | 1.0µm | 3.0µm | 5.0µm | 10.0µm	0.5µm | 0.7µm | 1.0µm | 3.0µm | 5.0µm | 10.0µm | 25.0µm
Flow Rate	1.0 CFM (28.3 LPM)	100 LPM (3.5 CFM)
Sample Inlet	3/8 inch Inlet Barb	1/2 inch Inlet Barb
Concentration Limits	1,000,000 Particles/ft³ @10% (35,300,000/m³) Coincidence loss suitable for ISO classes 1-8 cleanrooms	300,000 Particles/ft³ @10% (10,590,000/m³) Coincidence loss suitable for ISO classes 1-8 cleanrooms

Alerts	User-configurable warnings and alarms
Battery	2x Li-Ion battery slot capacity, removable/rechargeable, up to 11 hours nominal use, 50% duty cycle
Calibration	ISO 21501-4 Compliant and Accredited ISO 17025
Carry Handle	With RGB light pipe for status and alarms
Communication	Ethernet | USB standard | Wi-Fi (802.11 b/g/n)
Count Modes	Sample | Concentration | Beep | Custom Recipes | and Certification modes
Data Storage Records	10,000 Records | 2500 Locations | 250 Groups | 500 Presets | 500 Sample Plans | 500 Certifications | 100 Reports | 1000 Users
Dimensions	Imperial: 12.76" (l) x 6.23" (w) x 8.88" (h) | Metric: 32.41(l) x 15.82(w) x 22.55(h) cm
Enclosure	Chemically resistant polycarbonate blend, conductive lining, VHP compatible
Environmental Sensors	Temperature/Relative Humidity probe: 0 to 150°F (-17.8 to 65.6°C) ±1.8°F (0.5°C), 0-100% ± 2% RH
Languages	English | Spanish | Portuguese | German | French | Italian | Russian | Chinese | Korean | Japanese | Turkish | Thai
Light Source	Extreme Life Laser Diode
Power	External power supply: 24 VDC, 5 A max draw
Printer	Embedded thermal printer, also available without printer; print wirelessly via a network printer
Reports	FED 209E | ISO 14644-1:1999 | ISO 14644-1:2015 | EU GMP 2022 regulatory pass/fail reports on screen or printer
Sample Output	Internally filtered to HEPA standards (>99.97% @0.3µm); w/ rotating exhaust fitting for directed flow
Self-Diagnostics	Laser Power/Current/Supply | Flow Out-of-Range | No flow | PA Background/Supply/Health
Speakers	2x adjustable up to 70 dB to indicate status and alerts
Supporting Software	LMS Express | LMS Express RT | LMS Pharma | LMS Professional | LMS XChange
Temperature/Humidity	50°F to 104°F (10°C to 40°C), 20% to 95% relative humidity, non-condensing
Touch Screen Display	7.0 inch (8.89 cm), 1200 x 800 IPS color touch screen
Vacuum Source	Internal blower, automatic flow control
Weight	7.05 lbs (3.19 kg) without batteries, battery weight 1.35 lbs (0.61 kg)
Zero Count Level	< 1 Count / 5 minutes (meets specifications of JIS B 9921 and reporting requirements of ISO 21501-4 Annex C)

Includes: USB flash drive with lanyard, ISO probe 1 CFM (ApexZ3); 100 LPM (ApexZ50), ISP clamp, zero count filter, 24 VDC 5.0 amp power adapter and power cord, 10 feet of Beveline tubing 13/8" ID x 1/2" OD (ApexZ3); 1/2" ID x 5/8" OD BevXX (ApexZ50), 1 li-Ion smart battery included (2 battery slot capacity), 2x rolls of printer paper, Operators Manual on USB flash drive, Calibration Certificate

Optional: USB Barcode Scanner, Temperature & humidity probe, 1 CFM isokinetic sample probe, USB Wi-Fi Dongle, high-pressure diffuser (ported or vented), li-Ion batteries, Beveline tubing, external battery charger w/AC power cord, printed operators manual, carry case.

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