

# ApexZ

## AIRBORNE PARTICLE COUNTERS



**W**hen you are looking to take your environmental monitoring program to the next level, the ApexZ is your solution. The power of the ApexZ starts with a complete system of self-diagnostics and is topped off with the most flexible data management system in the industry, all packaged in the lightest and smallest portable air particle counter on the market.

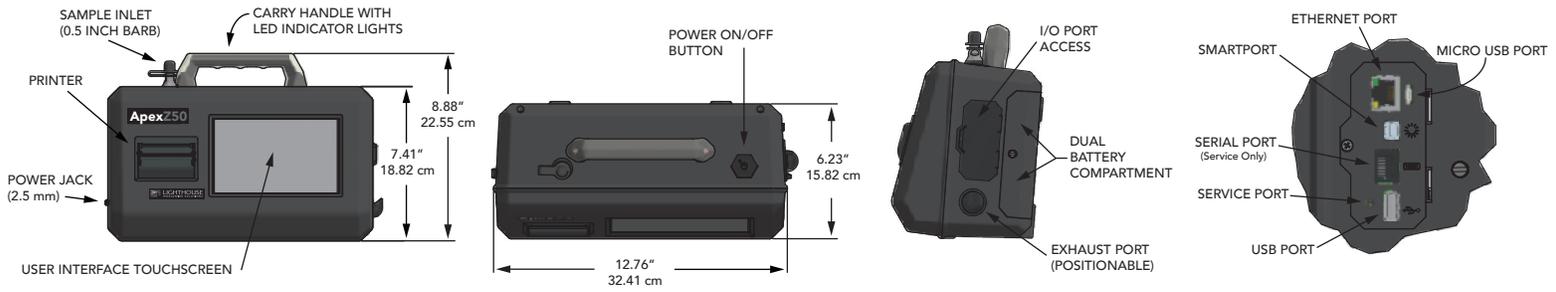
The ApexZ is the most innovative particle counter on the market and will be a timeless addition to any contamination control strategy.

### F E A T U R E S

- 0.3 - 10.0µm or 0.5µm-10µm Particle Size Channels
- 1.0 CFM or 100 LPM Flow Rates Available
- VHP Compatible Sensor and Housing
- Sealed Chemically Compatible Enclosure
- Bi-Directional Integration into LIMS EM Systems
- Hot-Swappable Smart Batteries
- Advanced Self-Diagnostics
- 21 CFR Part 11 Compliant
- Built-In Cleanroom Certification Reports
- 2 Year Warranty



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## TECHNICAL DATASHEET

### ApexZ Airborne Particle Counters

| Features / Models               | ApexZ3  | ApexZ50   |
|---------------------------------|---|---|
| <b>Minimum Size Detection</b>   | 0.3 µm  | 0.5 µm  |
| <b>Standard 6 channel sizes</b> | 0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm  | 0.5, 0.7, 1.0, 3.0, 5.0, 10.0 µm  |
| <b>Flow Rate</b>                | 1.0 CFM (28.3 LPM)  | 100 LPM (3.5 CFM)   |
| <b>Sample Inlet</b>             | 3/8 Inch Inlet Barb   | 1/2 Inch Inlet Barb   |
| <b>Concentration Limits</b>     | 1,000,000 Particles/ft <sup>3</sup> @10% (35,300,000/m <sup>3</sup> )<br>Coincidence loss suitable for ISO classes 1-8 cleanrooms | 300,000 Particles/ft <sup>3</sup> @10% (10,590,000/m <sup>3</sup> )<br>Coincidence loss suitable for ISO classes 1-8 cleanrooms |
| <b>Communication</b>            | Ethernet, USB standard, Wi-Fi (802.11 b/g/n)  |   |
| <b>Data Storage Records</b>     | 10,000 Records, 2500 Locations, 250 Groups, 500 Presets, 500 Sample Plans, 500 Certifications, 100 Reports, 250 Users             |   |
| <b>Count Modes</b>              | Sample, Concentration, Beep, Custom Recipes, and Certification modes  |   |
| <b>Printer</b>                  | Embedded panel-mount printer, also available without printer; print wirelessly via a network printer                              |   |
| <b>Reports</b>                  | FED 209E, ISO 14644-1:1999, ISO 14644-1:2015, & EU GMP 2022 regulatory pass/fail reports on screen or printer                     |   |
| <b>Self Diagnostics</b>         | Laser Power/Current/Supply, Flow out-of-range, No flow, PA Background/Supply/Health   |   |
| <b>Alerts</b>                   | Chemically resistant polycarbonate blend, conductive lining, VHP compatible   |   |
| <b>Enclosure</b>                | User-configurable warnings and alarms   |   |
| <b>Touch Screen Display</b>     | 7.0 inch (8.89 cm), 1200 x 800 IPS color touch screen   |   |
| <b>Speakers</b>                 | 2x adjustable up to 70 dB to indicate status and alerts   |   |
| <b>Carry Handle</b>             | With RGB light pipe for status and alarms   |   |
| <b>Power</b>                    | External power supply: 24 VDC, 5 A max draw   |   |
| <b>Light Source</b>             | Extreme Life Laser Diode  |   |
| <b>Calibration</b>              | ISO 21501-4 Compliant and Accredited ISO 17025  |   |
| <b>Zero Count Level</b>         | < 1 Count / 5 minutes (meets specifications of JIS B 9921 and reporting requirements of ISO 21501-4 Annex C)                      |   |
| <b>Dimensions</b>               | 12.76" (l) x 6.23" (w) x 8.88" (h), [32.41(l) x 15.82(w) x 22.55(h) cm]   |   |
| <b>Sample Output</b>            | Internally filtered to HEPA standards (>99.97% @ 0.3 µm); with rotatable exhaust fitting for directed flow                        |   |
| <b>Vacuum Source</b>            | Internal blower, automatic flow control   |   |
| <b>Battery</b>                  | 2x Li-Ion battery slot capacity, removable and rechargeable, up to 11 hours nominal use, 50% duty cycle                           |   |
| <b>Temperature Humidity</b>     | 50°F to 104°F (10°C to 40°C), 20% to 95% relative humidity, non-condensing  |   |
| <b>Weight</b>                   | 7.05 lbs (3.19 kg) without batteries, battery weight 1.35 lbs (0.61 kg)   |   |
| <b>Languages</b>                | English, Spanish, Portuguese, German, French, Italian, Russian, Chinese, Korean, Japanese, Turkish, Thai                          |   |
| <b>Environmental Sensors</b>    | Temperature/Relative Humidity probe: 0 to 150°F (-17.8 to 65.6°C) ±1.8°F (0.5°C), 0-100% ± 2% RH                                  |   |
| <b>Supporting Software</b>      | LMS Express, LMS Express RT, LMS Pharma, LMS Professional, LMS XChange  |   |

**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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