

Advanced Test Equipment Corp. www.atecorp.com 800-404-ATEC (2832)

TECHNICAL DATASHEET

ApexZ50





hen you are looking to take your environmental monitoring program to the next level, the ApexZ50 is your solution. The power of the ApexZ50 starts with the most complete system of self-diagnostics in the industry, an enclosure that is sealed, easy to wipe-down, and chemically compatible with all major cleaning solutions, and much more.

Lighthouse is famous for re-defining particle counting when we launched our first products. Now the ApexZ50 is doing it again with features such as a handle with integrated status lights*, integrated WiFi, 8-hour battery life with hot-swappable smart batteries, and a true multi-touch enabled display.

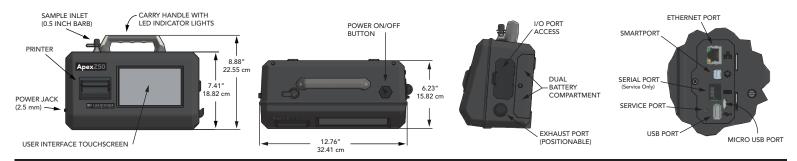
The ApexZ50 is designed to be integrated into your environmental monitoring program. With the ability to wirelessly send data to your computer or server, the ApexZ50 can be used as a wireless real time sensor. Groups, presets, sample plans and certifications can help to automate and simplify your monitoring routine. The ApexZ50 gives you various user and security levels, audit trails, and data tags that allow you to record things like batch and lot information, room status, or any other information you want associated with your particle counts. For large scale production facilities, we even offer custom integration and automation solutions.

Contact your local Lighthouse representative and see for yourself where the ApexZ50 can take you.

FEATURES

- 0.5 10.0 µm Particle Size Channels
- 100 LPM Flow Rate
- 21 CFR Part 11 Compliant
- Self-Diagnostics
- 7.0 inch Multi-Touch Display
- Sealed VHP Compatible Enclosure
- Integrated Status Lights
- Hot Swappable Smart Batteries
- Wi-Fi, Ethernet and USB Data Transfer Options
- Built-In Cleanroom Certification Reports
- 2 Year Warranty





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ApexZ50 Airborne Particle Counter

Features Size Range 0.5 - 10.0 µm **Standard 6 Channels** 0.5, 0.7, 1.0, 3.0, 5.0, 10.0 µm 100 I PM Flow rate Extreme Life Laser Diode **Laser Source** < 1 count / 5 minutes (meets specifications of JIS B 9921 and reporting requirements of ISO 21501-4 Annex C) **Zero Count Level Concentration Limits** 300,000 particles / ft³ @ 10% coincidence loss 50% @ $0.5 \, \mu m$; 100% for particles > $1.5 \, X$ first channel particle size **Counting Efficiency** Designed for ISO 21501-4 Compliance **Calibration** Laser Power/Current/Supply, Flow out-of-range, No flow, PA Background/Supply/Health **Self-Diagnostics Count Modes** Sample, Concentration, Beep, Custom Recipes and Certification modes **Data Storage** 10,000 Sample Records, 2500 Locations, 250 Groups, 500 Presets, 500 Sample Plans, 500 Certifications, 100 Reports, 250 Users Ethernet, USB standard, Wi-Fi (802.11 b/g/n) Communication LMS Express, LMS Express RT, LMS Pharma, LMS Professional, LMS XChange **Supporting Software** Temperature/Relative Humidity probe: 0 to 150°F (-17.8 to 65.6°C) ±1.8°F (0.5°C), 0-100% ± 2% RH **Environmental Sensors** 7.0 inch (8.89 cm), 1200 x 800 IPS color touch screen **Touch Screen Display Speakers** 2x adjustable up to 70 dB to indicate status and alerts With RGB light pipe for status and alarms **Carry Handle** Embedded panel-mount printer, also available without printer Printer FED 209E, ISO 14644-1:1999, ISO 14644-1:2015, & EU GMP regulatory pass/fail reports on screen or printer Reports Alert User configurable warnings and alarms Sample Inlet 1/2 inch Inlet nozzle **Sample Output** Internally filtered to HEPA standards (>99.97% @ 0.3 µm); with rotatable exhaust fitting for directed flow Internal blower, automatic flow control Vacuum Source Chemically resistant polycarbonate blend, conductive lining, VHP compatible **Enclosure** External power supply: 24 VDC, 5 A max draw Power **Battery** 2x Li-Ion battery slot capacity, removable and rechargeable, 8 hours nominal use, 50% duty cycle no printing 12.76" (l) x 6.23" (w) x 8.88" (h), [32.41(l) x 15.82(w) x 22.55(h) cm] **Dimensions** 35°F to 104°F (2°C to 40°C), 20% to 95% relative humidity, non-condensing **Temperature Humidity** 7.05 lbs (3.19 kg) without batteries, battery weight 1.35 lbs (0.61 kg) Weight English, Spanish, Portuguese, German, French, Italian, Russian, Chinese, Korean, Japanese, Turkish, Thai Languages

Includes USB flash drive with lanyard, ISO probe 100 LPM, ISP clamp, tubing 1/2" ID x 5/8" OD BevXX 10 feet, zero count filter, 24 VDC 5.0 amp power adapter and power cord, 1 li-lon smart battery included (2 battery slot capacity), 2x rolls of printer paper, calibration certificate

Optional USB Barcode Scanner, Temperature & humidity probe, Isokinetic sample probe 100 LPM with 6ft tubing, additional li-Ion batteries, external battery charger w/AC power cord, printed operators manual, carry case





Lighthouse Worldwide Solutions reserves the right to change specifications without notice.

