

TECHNICAL DATASHEET

ApexZ Airborne Particle Counters

Features / Models	ApexZ3	ApexZ50	
Minimum Size Detection	0.3 µm	0.5 μm	
Standard 6 channel sizes	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	
Flow Rate	1.0 CFM (28.3 LPM)	100 LPM	
Sample Inlet	3/8 Inch Inlet Barb	1/2 Inch Inlet Barb	
Concentration Limits	1,000,000 Particles/ft3@10% (35,300,000/m3)	300,000 Particles/ft3@10% (1,050,000/m3)	
	Coincidence loss suitable for ISO classes 1-8 cleanrooms	Coincidence loss suitable for ISO classes 1-8 cleanrooms	
Communication	Ethernet, USB standard, Wi-Fi (802.11 b/g/n)		
Data Storage Records	10,000 Records, 2500 Locations, 250 Groups, 500 Presets, 500 Sample Plans, 500 Certifications, 100 Reports, 250 Users		
Count Modes	Sample, Concentration, Beep, Custom Recipes, and Certification modes		
Printer	Embedded panel-mount printer, also available without printer; print wirelessly via a network printer		
Reports	FED 209E, ISO 14644-1:1999, ISO 14644-1:2015, & EU GMP regulatory pass/fail reports on screen or printer		
Self Diagnostics	Laser Power/Current/Supply, Flow out-of-range, No flow, PA Background/Supply/Health		
Alerts	Chemically resistant polycarbonate blend, conductive lining, VHP compatible		
Enclosure	User-configurable warnings and alarms		
Touch Screen Display	7.0 inch (8.89 cm), 1200 x 800 IPS color touch screen		
Speakers	2x adjustable up to 70 dB to indicate status and alerts		
Carry Handle	With RGB light pipe for status and alarms		
Power	External power supply: 24 VDC, 5 A max draw		
Light Source	Extreme Life Laser Diode		
Calibration	ISO 21501-4 Compliant and Accredited ISO 17025		
Zero Count Level	< 1 Count / 5 minutes (meets specifications of JIS B 9921 and reporting requirements of ISO 21501-4 Annex C)		
Dimensions	12.76" (l) × 6.23" (w) × 8.88" (h), [32.41(l) × 15.82(w) × 22.55(h) cm]		
Sample Output	Internally filtered to HEPA standards (>99.97% @ 0.3 μ m); with rotatable exhaust fitting for directed flow		
Vacuum Source	Internal blower, automatic flow control		
Battery	2x Li-Ion battery slot capacity, removable and rechargeable, 8 hours nominal use, 50% duty cycle		
Temperature Humidity	50°F to 104°F (10°C to 40°C), 20% to 95% relative humidity, non-condensing		
Weight	7.05 lbs (3.19 kg) without batteries, battery weight 1.35 lbs (0.61 kg)		
Languages	English, Spanish, Portuguese, German, French, Italian, Russian, Chinese, Korean, Japanese, Turkish, Thai		
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		
Supporting Software	LMS Express, LMS Express RT, LMS Pharma, LMS Professional, LMS XChange		

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-lon 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

返保 (E)

ApexZ Remote Airborne Particle Counter

Lighthouse Worldwide Solutions Operations

EME/ Mima Ozge NO: 1 Cekm Turke Tel: + Fax: +
Thaila 99/10 A. Klo Pathu Thaila Tel: + Fax: +
R & D 47509 Fremo USA

Tel: +604 370 1229 Fax: +604 370 1209

Distributed By:

www.golighthouse.com info@golighthouse.com

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

1-800 945 5905 (Tollfree) 1-541 770 5905 (Outside of USA)









A Operations

ar Sinan Mh. Cavusbasi Cd. e Sk. Zin D Business Center 1/26 nekoy/Istanbul ey +90 216 640 0 597 +90 216 640 0 598

land Operations

00 Moo 6, T .Klongsi longluang, umthani, 12120 land

+662 147 5188 +662 147 3198

D Center

09 Seabridge Dr. nont, CA 94538

Tel: +1 510 438 0500











Faster and simpler particle counting using your current SOPs:

- Flexible and simple user interface matches any particle counter SOP you use today.
- ✓ Organize your cleanroom workflows with sample plans and validated location protocols.
- Automate any or all data transfer within your IT environment.

Automate your workflow and Eliminate sample errors:

- ✓ Organize your entire cleanroom with sample plans; validated routines by location in any or all environments.
- ^I Map all sampling routines to pre-defined locations for both routine monitoring and certification requirements.



Stop particle excursion madness and Immediately document and trouble-shoot any alarm:

- Comment via data tags on any sample routine excursion to document the event digitally in the data record and audit trail.
- ✓ One-click zero count test ensures excursion event is not a false-positive alert or alarm condition.
- Simplified excursion reporting from data tags ensures no guess work after exiting the cleanroom environment.

Save Time with Simplified User Management:

- ✓ Log into your particle counter with your existing network ID and Password, via Active Directory Groups.
- Customize User access levels to match your existing procedures within 21 CFR part 11.



Configure, validate and start particle counting quickly via LMS XChange:

- Build validated standard sample configurations and upload them into one or all particle counters.
- **W** Build cleanroom sample plans for any environment - 1 click upload.
- **M** LMS XChange software is available free to any Lighthouse Worldwide Solutions' customer.



Maximize uptime and production efficiency in your cleanroom:

- ✓ Long life dual batteries operate 10-12 hours.
- \checkmark Small, compact 7 lb design can be easily transferred with no ergonomic impact from room to room.
- Maximize walk-away time with visual status lights on the handle for sampling, alert and idle.
- **Full suite of on-site and factory services** for install, validation, data integration, change management and calibration needs.

Ensure compliance to 21 CFR part 11 data requirements:

0 ••••••

- Traceability and data security assured with ApexZ audit trail.
- 10 customizable user access levels.
- Simplify the operator's daily workflow by using global settings to ensure administrator features are hidden.

XXXX 10

Wipedown with **Confidence:**

- \mathbf{V} Eliminates risk of cleaning agents leaking into the instrument during your wipe down process.
- The industries' only fully sealed, chemically compatible particle counter.

Save time. Eliminate Errors. Data transfer your way!

Seamlessly integrate data into your existing processes today:

- ✓ Integrated printer (also available without printer).
- ✓ Direct data output to .CSV, .LSDX or .PDF.

Transfer data directly to secure folders on your network:

- Flexibly connect via WiFi, Ethernet or USB to send secure data your way.
- ✓ Provides secure location for data transfer to LIMS or ERP.
- ✓ Eliminate manual data transfer errors.

Connect your ApexZ directly to your LIMS or ERP:

- Complete and customizable data integration to your existing LIMS and ERP systems via API.
- Project Management, data integration and validation services to speed data integration.

Real-time holistic data streaming via Lighthouse software suite:

- ✓ Customized reports for data views your way.
- **Release cleanrooms faster; fully configured for all cleanroom parameters for** real-time release decisions.
- Real-time cleanroom management ensures SOP adherence and room status instantaneously.
- Visibility to cleanroom management work orders through the entire fill procedure.



