LIGHTHOUSE
WORLDWIDE SOLUTIONS
Technology That Counts!

EXTREME LIFE LASER DIODE TECHNOLOGY

BOULDER COUNTER

1.0 CFM (28.3 LPM) Airborne Particle Counters

The **Lighthouse *BOULDER COUNTER*** portable airborne particle counters incorporate our ***Extreme Life Laser Diode Technology*** sensor to produce the industry's longest laser diode life of 20+ years MTTF (based on continuous 24/7 operation). Designed to use a new, lighter extended-life battery and external AC adapter, the ***BOULDER COUNTER*** is even more portable.

BOULDER COUNTERs feature one of the industry's best User Interfaces (UI) to configure and operate the instrument with intuitive ICON-driven screens and menus that are quick to document for SOPs, easy to learn and simple to use.

BOULDER COUNTERs can store up to 3,000 records of particle count data from up to 6 particle channels and the configurable recipe database can store up to 50 recipes for sampling and reports. All data can be quickly and reliably transferred to a computer, a Facility Monitoring System or a Building Automation System.

Secure data transfer (per 21 CFR Part 11) to a USB Flash Drive can be accomplished by using the Lighthouse Secure Data transfer feature and ***LMS Express*** or ***Express RT*** software. Flexible communications with these instruments is made possible by the integrated Ethernet, RS-485, USB and USB Flash Drive interfaces.

BOULDER COUNTERs are designed, manufactured and calibrated to standards that ensure particle counting accuracy and repeatability.

Designed and built by
Lighthouse - a name you can trust.

Lighthouse is an ISO 9001:2008 Registered Company

www.golighthouse.com

Features:

- ★ 5.0µm to 100.0µm sensitivity
- ★ 1.0 CFM (28.3 LPM) Flow Rate
- ★ Simultaneous Display of up to 6 Particle Sizes
- ★ 21 CFR Part 11 Compliant Secure Data Transfer via USB Flash Drive
- ★ Extreme Life Laser Diode Technology >20-year MTTF Laser Lifespan
- ★ Thermal Printer
- ★ Stainless Steel Construction
- ★ Multiple Communication Interfaces - USB, RS-485, Ethernet and USB Flash Drive
- ★ 5.7-inch Color TFT Touch Screen Display
- ★ 3000-record Data Storage Memory
- ★ 50-record Configurable Recipe Database
- ★ User-Definable Printouts
- ★ Open Architecture Connectivity with OPC Server
- ★ Report Wizard for Cleanroom Pass/Fail Reports: FS-209E, ISO-14644-1 or EU GMP Annex 1
- ★ Multiple-language Support: English, French, German, Italian, Spanish, Chinese, Russian, Japanese, Korean

Benefits:

- ★ User Friendly Interface with Multiple Languages
- ★ International Support
- ★ 2 year Warranty
- ★ Easy Integration to External Systems with OPC Server

Applications:

- ★ Automotive Manufacturing
- ★ Coating Processes
- ★ Paint Booth
- ★ Aerospace Flight and Space Hardware Manufacturing
- ★ Flat Panel Display Manufacturing
- ★ Medical Device Manufacturing

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Specifications:

Size Range:	5.0 - 100.0µm
Standard Channel Sizes:	5.0, 10.0, 25.0, 40.0, 50.0, 100.0µm; 5.0, 10.0, 20.0, 30.0, 50.0, 100.0µm

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Flow Rate:	1.0 CFM (28.3 LPM)
Counting Efficiency:	50% @ 5.0µm
Light Source:	*Extreme Life Laser Diode Technology* with >20-year Mean Time To Failure (MTTF)
Zero Count Level:	<1 count / 5 minutes (per JIS B 9921)
Concentration Limits:	500,000 Particles/ft^3 @5% Coincidence Loss,
Calibration:	NIST Traceable PSL Spheres
Count Modes:	Automatic, Manual, Beep, Concentration, Cumulative/Differential and Real Time (with LMSNet or LMS Express RT)
Data Storage:	3,000 Sample Records (Rotating Buffer), which includes particle and environmental data with locations and times
Communication Modes:	USB; Ethernet; RS-485; Secure Data Transfer to and Storage on USB Flash Drive
Supporting Software:	*LMS XChange*, *LMS Express* and *Express RT; LMS Standard; LMS Pharma; CREWin*
Touch Screen Display:	5.7-inch (14.47 cm) Color TFT Touch Screen Display
Location Labels:	Up to 400, based on Location Label Length
Printer:	Built-in Thermal Printer (non-printer model available)
Reports:	Pass/Fail Report Wizard for ISO-14644-1, EU GMP Annex 1 and FS-209 Report Formats
Alarm:	Integrated Alarm Buzzer and External Alarm Connection. Alarms on Counts and Low Battery
Enclosure:	Stainless Steel
Sample Output:	Internally filtered to HEPA standards (>99.97% @ 0.3µm)
Vacuum Source:	Internal Closed-loop Controlled Pump: allows the use of Sample Tubing of up to 12 Meters (40 feet) in length
Power:	100-240 VAC, 50-60 Hz, External AC/DC Adapter
Battery:	Optional: Lightweight Extended-life Li-Ion, Removable & Rechargeable (typical recharge time 6 hours)
Dimensions:	9.5” (d) x 8.0” (w) x 10.2” (h) [24.13 x 20.32 x 25.9 cm]
Weight:	With Battery: 13.0 lbs (5.89 kg); Without Battery: 11.5 lbs (5.2 kg)
Languages:	English, French, German, Italian, Spanish, Chinese, Russian, Japanese, Korean

Environmental Conditions:

Operating: 50°F to 104°F (10°C to 40°C) / 20% to 95% non-condensing
Storage: 14°F to 122°F (-10°C to 50°C) / Up to 98% non-condensing

Accessories:

Included: Operating Manual on CD; Isokinetic Sample Probe; Purge Filter; Power Cable; *LMS XChange* and *LMS Express* Software; Printer; Printer Paper

Optional: *Wireless Network Adapter*; Removable Rechargeable Li-Ion Battery; Carrying Case with Wheels; Temperature/Relative Humidity Probe; Differential Pressure Probe; *Intelligent Filter Scanning Probe*; Air Velocity Probe; Spare Removable Rechargeable Li-Ion Battery; External Battery Charger; *LMS Express RT* Software; *LMS Pharma Edition* Software; *LMS Standard* Software; Printed Operating Manual; Cleanroom Cart

Manufactured by:

LIGHTHOUSE
WORLDWIDE SOLUTIONS
www.golighthouse.com
info@golighthouse.com
Sales Tel:510-438-0500

MADE IN U. S. A.

CE

Distributed by:

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