LIGHTHOUSE
WORLDWIDE SOLUTIONS
Technology That Counts!

HANDHELD
PARTICLE COUNTERS

The ergonomically designed and lightweight Lighthouse ***HANDHELD 2016***, ***3016*** and ***5016*** particle counters feature 0.2, 0.3 and 0.5µm sensitivities and are the most advanced handheld particle counters on the market.

Providing up to 6 particle size channels of simultaneous counting, Lighthouse ***HANDHELD*** Particle Counters can display cumulative and differential particle count data as well as Temperature/Relative Humidity data on the fast and easy to read color touch screen.

Lighthouse ***HANDHELD particle counters*** can hold up to 3000 records of particle data and the configurable recipe database can store up to 50 recipes for sampling and reports.

Removable batteries and an optional charger help to maximize the ***HANDHELD***'s uptime. Data is very easily downloaded using the Lighthouse Data Transfer Software.

The ***HANDHELD*** can be used as a mobile particle monitor or become a part of a large facility monitoring and management system.

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

Lighthouse is an ISO 9001:2008 Registered Company.

www.golighthouse.com

Features:

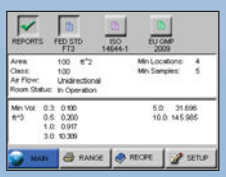
- Handheld 2016: 0.2 - 2 µm
- Handheld 3016: 0.3 - 25 µm
- Handheld 5016: 0.5 - 25 µm
- 0.1 CFM (2.83 LPM) Flow Rate
- View 6 Particle Sizes Simultaneously
- Designed for ISO 21501-4 Compliance: Unit-to-Unit Accuracy and Repeatability
- Bright 3.5" (8.89 cm) Color Touch Screen Display
- Removable / Rechargeable Li-Ion Battery
- Large Memory for Storing Data (3,000 samples)
- Concentration Limit - 4,000,000/ft^3
- Temperature/Relative Humidity Probe Included
- Alphanumeric Location Labels
- Test Wizard for Cleanroom Pass/Fail Reports: FS-209E, ISO-14644-1 or EU GMP Annex 1
- 50-record Configurable Recipe Database
- Easily Configurable Interface with Zoom Capability
- Internal Audible Alarm
- Ergonomically Designed
- Lightweight
- Open Architecture Connectivity with OPC Server

Benefits:

- 2 Year Warranty
- User Friendly Interface
- International Support
- Low Cost of Ownership

Removable Rechargeable Li-Ion Battery

One-handed Operation with Start & Stop on Handle



Reports Screen

Removable Temp/ RH and Isokinetic Probe

Easily Download Data to PC

LIGHTHOUSE
WORLDWIDE SOLUTIONS
Technology That Counts!

Specifications

	2016	3016	5016
Size Range:	0.2 - 2.0 µm	0.3 - 25.0 µm	0.5 - 25.0 µm
Channel Sizes:	0.2, 0.3, 0.5, 0.7, 1.0, 2.0 µm	Standard: 0.3, 0.5, 0.7, 1.0, 2.0, 5.0 µm Standard: 0.3, 0.5, 1.0, 3.0, 5.0, 10.0 µm Standard: 0.3, 0.5, 0.7, 1.0, 2.5, 5.0 µm Standard: 0.3, 0.5, 1.0, 2.5, 5.0, 10.0 µm Optional: 0.3, 0.5, 1.0, 5.0, 10.0, 25.0 µm	Standard: 0.5, 0.7, 1.0, 3.0, 5.0, 10.0 µm Optional: 0.5, 1.0, 3.0, 5.0, 10.0, 25.0 µm
Counting Efficiency:	50% @ 0.2 µm; 100% for particles > 0.3 µm (per ISO 21501-4)	50% @ 0.3 µm; 100% for particles > 0.45 µm (per ISO 21501-4)	50% @ 0.5 µm; 100% for particles > 0.75 µm (per ISO 21501-4)

Flow Rate:	0.1 CFM (2.83 LPM)
Laser Source:	Extreme Life Laser Diode with >20 Years MTTF
Zero Count Level:	<1 count / 5 minutes (per ISO 21501-4)
Concentration Limits:	4,000,000 Particles / ft^3 @ 5% Coincidence Loss
Calibration:	Meets ISO 21501-4 Calibration using NIST Traceable PSL Spheres, DMA and Condensation Particle Counter
Count Modes:	Automatic, Manual, Beep, Concentration, Cumulative/Differential
Data Storage:	3,000 Sample Records, Rotating Buffer (includes particle and environmental data, location and time)
Communication Modes:	RS-232 via RJ-45 to a PC or an Optional Printer
Supporting Software:	LMS XChange; LMS Express; LMS Express RT; LMS Pharma; LMS Standard; CRQWin
Environmental Sensors:	Temperature/Relative Humidity Probe: 32-122°F(0-50°C) ±1°F (0.5°C), 15-90% ± 2% RH
Touch Screen Display:	3.5" (8.89 cm), Color TFT
Reports:	FS-209E, ISO-14644-1 & EC GMP
Alarms:	Internal, Adjustable Alarm Buzzer. Alarms on Counts, Low Battery or Sensor Failure
Sample Inlet:	Isokinetic Sampling Probe
Sample Output:	Internally Filtered to HEPA Standards (>99.97% @ 0.3 µm)
Vacuum Source:	Internal Pump, Automatic Flow Control
Enclosure:	High Impact Injection Molded Plastic
Power:	External Power Supply: 12VDC, 1.25A
Battery:	Li-Ion, Removable & Rechargeable
Dimensions:	8.75" (l) x 5.0" (w) x 2.5" (h) [22.23 x 12.7 x 6.35 cm]
Weight:	2.2 lb (1kg)
Languages:	**English (U.S.), Deutsch, Español, Italiano, François**

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; Removable Battery; Direct Mount Isokinetic Sample Probe; Purge Filter; Temperature/Relative Humidity Probe; Power Supply; Power Cord; LMS XChange and LMS Express Software

Optional: Carrying Case; Isokinetic Sample Probe with 6 ft. tubing (extends Isokinetic sample input); Additional Li-Ion Batteries; External Battery Charger w/ AC & Car Adapter; Thermal Printer and Cable; Mini Manifold; Printed Operating Manual

Manufactured by:

LIGHTHOUSE
WORLDWIDE SOLUTIONS

www.golighthouse.com
info@golighthouse.com

Tel: 800 945 5905 (Toll Free)
541 770 5905 (Outside of USA)

CE

MADE IN U. S. A.

Distributed by:

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

LWS PN 545401709-1 Rev 1