



## HANDHELD 3016 IAQ PARTICLE COUNTER

The ergonomically designed and lightweight Lighthouse **HANDHELD 3016 IAQ** is the newest, most advanced handheld particle counter on the market, featuring Mass Concentration Mode that approximates density in  $\mu\text{g} / \text{m}^3$ .

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 3016 IAQ** can hold up to 3000 records of particle data and the configurable recipe database can store up to 50 recipes for sampling and reports.

The **HANDHELD 3016 IAQ** monitors particulate levels accurately and reliably, even in "hard-to-reach" areas where two-handed operation is unsafe.

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

Lighthouse is an ISO 9001:2008 Registered company.

[www.golighthouse.com](http://www.golighthouse.com)

### Features:

- ★ 0.3 - 10  $\mu\text{m}$  Size Range
- ★ 0.1 CFM (2.83 LPM) Flow Rate
- ★ View 6 Particle Sizes Simultaneously
- ★ Approximate Mass Concentration in  $\mu\text{g} / \text{m}^3$
- ★ 3.5" (8.89 cm) Color Touch Screen Interface
- ★ Removable / Rechargeable Li-Ion Battery
- ★ Large Memory for Storing Data (3,000 samples)
- ★ Concentration Limit - 4,000,000/ft<sup>3</sup>
- ★ Temperature/Relative Humidity Probe Included
- ★ 200 User Defined Alphanumeric Location Labels
- ★ Easily Configurable Interface with Zoom Capability
- ★ On Screen Data Buffer Viewing
- ★ Molded Handle Allows One-handed Sampling
- ★ Internal Audible Alarm
- ★ Ergonomically Designed
- ★ Lightweight
- ★ Data Easily Downloaded to Computer
- ★ 50-record Configurable Recipe Database

### 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



Mass Concentration Screen



Removable Temp / RH and Isokinetic Probes

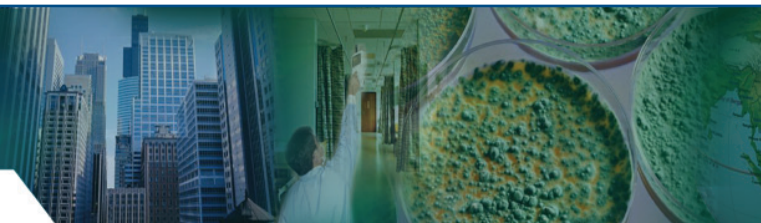


Easily Download Data to PC



# LIGHTHOUSE

WORLDWIDE SOLUTIONS



## Specifications:

<b>Size Range:</b>	0.3 - 10.0 $\mu\text{m}$
<b>Channel Sizes:</b>	Standard: 0.3, 0.5, 1.0, 2.5, 5.0, 10.0 $\mu\text{m}$
<b>Flow Rate:</b>	0.1 CFM (2.83 LPM)
<b>Counting Efficiency:</b>	50% @ 0.3 $\mu\text{m}$ ; 100% for particles > 0.45 $\mu\text{m}$ (per ISO 21501-4)
<b>Laser Source:</b>	Extreme Life Laser Diode with >20 Years MTTF
<b>Zero Count Level:</b>	<1 count / 5 minutes (per ISO 21501-4)
<b>Concentration Limits:</b>	4,000,000 Particles / ft <sup>3</sup> @ 5% Coincidence Loss
<b>Calibration:</b>	Meets ISO 21501-4 Calibration using NIST Traceable PSL Spheres, DMA and Condensation Particle Counter
<b>Count Modes:</b>	Automatic, Manual, Beep, Concentration, Cumulative/Differential, Mass Concentration
<b>Data Storage</b>	3,000 Sample Records, Rotating Buffer (includes particle and environmental data, location and time)
<b>Communication Modes:</b>	RS-232 via RJ-45 to PC or Printer
<b>Supporting Software:</b>	LMS XChange; LMS Express; LMS Express RT; LMS Pharma; LMS Standard; CRQWin
<b>Environmental Sensors:</b>	Temperature/Relative Humidity Probe: 0-150°F (-17.8 to 65.6°C) $\pm$ 1.8°F @ 77°F, 0-100% $\pm$ 5% @ 33%
<b>Touch Screen Display:</b>	3.5" (8.89 cm), Color TFT
<b>Alarms:</b>	Internal, Adjustable Alarm Buzzer. Alarms on Counts, Low Battery, Sensor Failure
<b>Sample Inlet:</b>	Isokinetic Sampling Probe
<b>Sample Output:</b>	Internally Filtered to HEPA Standards (>99.97% @ 0.3 $\mu\text{m}$ )
<b>Vacuum Source:</b>	Internal Pump, Automatic Flow Control
<b>Enclosure:</b>	High Impact Injection Molded Plastic
<b>Power:</b>	External Power Supply: 12VDC, 1.25A
<b>Battery:</b>	Li-Ion, Removable & Rechargeable
<b>Dimensions:</b>	8.75" (l) x 5.0" (w) x 2.5" (h) [22.23 x 12.7 x 6.35 cm]
<b>Weight:</b>	2.2 lb (1kg)
<b>Languages:</b>	English (U.S.), Deutsch, Español, Français, Italiano

## Environmental Conditions:

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

## Accessories:

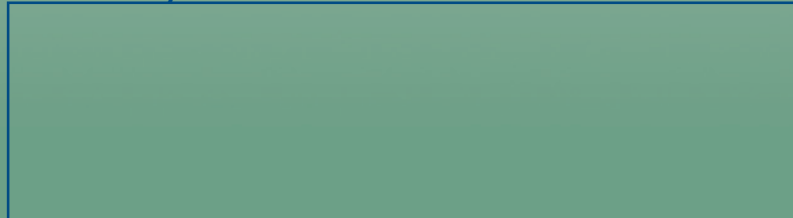
<b>Included:</b>	Operating Manual on CD; Removable Battery; Direct Mount Isokinetic Sample Probe; Purge Filter; Temperature / Relative Humidity Probe; Power Supply; Power Cord; LMS XChange and LMS Express Software
<b>Optional:</b>	Carrying Case; Isokinetic Sample Probe with 6 ft. tubing (extends sampling input); Additional Li-Ion Batteries; External Battery Charger w/ AC & Car Adapter; Thermal Printer and Cable; Printed Operating Manual

## Manufactured by:

 **LIGHTHOUSE**  
WORLDWIDE SOLUTIONS  
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## Distributed by:



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