HANDHELD PARTICLE COUNTERS

Ergonomically designed and lightweight, the Lighthouse HANDHELD line of particle counters which features the 2016, 3016 and 5016 are the most advanced Handheld particle counters on the market.

Offering 6 channels of simultaneous particle counting, the Lighthouse HANDHELD Particle Counters display both cumulative and differential particle count data as well as Temperature/Relative Humidity data on its easy to read 3.8" (9.65 cm) touch screen. A removable battery maximizes the HANDHELD’s uptime. Data is easily downloaded using the Lighthouse Data Transfer Software.

The HANDHELD can be used as a mobile particle monitor or can become a part of a larger facility monitoring/management system.

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

Lighthouse is an ISO 9001:2000 Registered Company.

www.golighthouse.com
### Specifications

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>3016</th>
<th>5016</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size Range:</strong></td>
<td>0.2 - 2.0 μm</td>
<td>0.3 - 25.0 μm</td>
<td>0.5 - 25.0 μm</td>
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<tr>
<td><strong>Channel Sizes:</strong></td>
<td>0.2, 0.3, 0.5, 0.7, 1.0, 2.0 μm</td>
<td>Standard: 0.3, 0.5, 0.7, 1.0, 2.0, 5.0 μm</td>
<td>Standard: 0.5, 0.7, 1.0, 3.0, 5.0, 10.0 μm</td>
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<tr>
<td><strong>Counting Efficiency:</strong></td>
<td>50% @ 0.2 μm; 100% for particles &gt; 0.3 μm (per JIS)</td>
<td>50% @ 0.3 μm; 100% for particles &gt; 0.45 μm (per JIS)</td>
<td>50% @ 0.5 μm; 100% for particles &gt; 0.75 μm (per JIS)</td>
</tr>
</tbody>
</table>

**Flow Rate:** 0.1 CFM (2.83 LPM)

**Laser Source:** Laser Diode

**Zero Count Level:** <1 count / 5 minutes (per JIS)

**Concentration Limits:** 4,000,000 Particles / ft³ @ 5% Coincidence Loss

**Calibration:** NIST Traceable

**Count Modes:** Automatic, Manual, Beep, Concentration, Cumulative/Differential

**Data Storage:** 3,000 Sample Records, Rotating Buffer (includes location and time information, as well as particle and environmental data)

**Communication Modes:** RS-232 via RJ-45 to a PC or an Optional Printer

**Supporting Software:** LMS XChange; LMS Express, LMS Express RT and LMS Express RT+; LMSNet

**Environmental Sensors:** Temperature/Relative Humidity Probe: 32-122°F(0-50°C) ±1°F (0.5°C), 15-90% ± 2% RH

**Touch Screen Display:** 3.8” (9.65 cm), Monochrome, 320x240

**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 (>99.997% @ 0.3 μm)

**Vacuum Source:** Internal Pump, Automatic Flow Control

**Enclosure:** High Impact Injection Molded Plastic

**Power:** 100-240 V, 50-60 Hz

**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)

### 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, Isokinetic Sample Probe (direct mount), Purge Filter, Temperature/Relative Humidity Probe, Power Supply, Power Cord, LMS XChange Software

**Optional:** Carrying Case, Isokinetic Sample Probe (with 6 ft tubing for extending Isokinetic Sampling input), Removable / Rechargeable Li-Ion Battery, External Battery Charger w/ AC & Car Adapter, Thermal Printer and Cable, LMS Express Software, LMS Express RT Software, LMS Express Software RT+, Mini Manifold, Validation Documentation

### Environmental Sensors

**Temperature** (°F / °C):
- Operating: 50°F to 104°F (10°C to 40°C)
- Storage: 14°F to 122°F (-10°C to 50°C)

**Relative Humidity** (% RH):
- Operating: 20% to 95%
- Storage: Up to 98%

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

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