

# HandHeld

## AIRBORNE PARTICLE COUNTERS



**T**he ergonomically designed and lightweight Lighthouse Handheld particle counters feature 0.2, 0.3, and 0.5  $\mu\text{m}$  sensitivities.


Lighthouse Handheld particle counters can display cumulative and differential particle count and temperature/relative humidity data. The Handheld can hold up to 3,000 records of particle data and store up to 50 recipes for sampling and reports. Removable batteries and an optional charger maximize uptime.

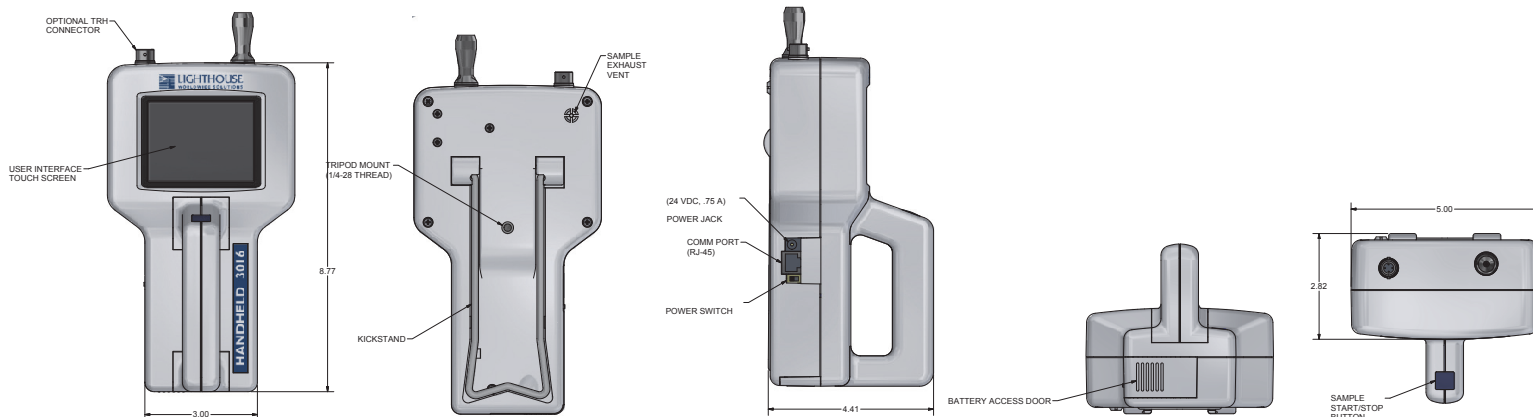
Data is easily downloaded using the LMS Xchange software. The Handheld can be used as a mobile particle monitor or become part of a larger facility monitoring and management system.

### F E A T U R E S

- 0.2 - 25.0 $\mu\text{m}$  Particle Size Channels
- 0.1 CFM Flow Rate
- Up to 6 Channels of Simultaneous Count Data
- 21 CFR Part 11 Compliant secure USB flash transfer
- High impact Injection Molded Plastic
- Web Functionality to Monitor Data
- RS-232 via RJ45 to PC or optional printer
- 3,000 Record data storage
- Reports: ISO-14644-1 & EU GMP Annex 1
- 2 Year Warranty



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## TECHNICAL DATASHEET

### HandHeld Airborne Particle Counters

Features / Models	HH2016	HH3016	HH3016 IAQ <sub>(mass concentrations)</sub>	HH5016
<b>Minimum Size Detection</b>	0.2 µm	0.3 µm	0.3 µm	0.5 µm
<b>Standard 6 Channel sizes</b>	0.2, 0.3, 0.5, 0.7, 1.0, 2.0 µm	0.3, 0.5, 0.7, 1.0, 2.0, 5.0 µm	0.3, 0.5, 1.0, 2.5, 5.0, 10.0 µm	0.5, 0.7, 1.0, 3.0, 5.0, 10.0 µm
<b>Additional Available sizes</b>		0.25, 3.0, 2.5, 10.0, 25.0 µm		25.0 µm
<b>Flow Rate / Nozzle Size</b>	0.1 CFM (2.83 LPM),			
<b>Weight</b>	2.2 lbs (1 kg)			
<b>Concentration Limits</b>	8,000,000 Particles/ft <sup>3</sup> @10% Coincidence loss suitable			
<b>Communication</b>	RS-232 via RJ-45 to PC or optional printer			
<b>Count Modes</b>	Automatic, manual, beep, concentration, cumulative/differential			
<b>Data Storage Records</b>	3,000 sample records, rotating buffer, includes particle and environmental data, location, and time			
<b>Alarms</b>	Internal, adjustable alarm on counts, low battery, sensor failure			
<b>Sample Inlet</b>	Isokinetic sampling probe			
<b>Sample Outlet</b>	Internally filtered to HEPA standards (>99.97% @ 0.3 µm)			
<b>Vacuum Source</b>	Internal pump, automatic flow control			
<b>Environmental Sensors</b>	Direct Mount Temperature/Relative Humidity probe: 0-150°F (-17.8 to 65.6°C)±1.8°F@77°F, 0-100% ± 5%@33%			
<b>Enclosure</b>	High impact injection molded plastic			
<b>Power</b>	External power supply: 12 VDC, 1.25 A			
<b>Battery</b>	Li-Ion, removable and rechargeable			
<b>Light Source</b>	Extreme Life Laser Diode			
<b>Calibration</b>	ISO 21501-4 Compliant and Accredited ISO 17025			
<b>Zero Count Level</b>	< 1 Count / 5 minutes (meets specifications of JIS B 9921 and reporting requirements of ISO 21501-4 Annex C)			
<b>Dimensions</b>	8.75" (l) x 5.0" (w) x 2.5" (h), (22.23 x 12.70 x 6.35 cm)			
<b>Software</b>	LMS Express, LMS Express RT, LMS Pharma, LMS Pro, LMS Xchange			
<b>Languages</b>	English (U.S.), Deutsch, Espanol, Italiano, Français, Russian, Japanese, Korean and Chinese			

**Includes** Removable battery, direct mount isokinetic sample probe; purge filter; temperature/relative humidity probe; power supply; power cord

**Optional** Carry Case, Isokinetic sample probe with 6ft tubing, additional Li-Ion batteries, external battery charger w/AC & car adapter, thermal printer and printer cable, printed operating manual

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

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