Handheld

P A R T I C L E   C O U N T E R S

Handheld 2016/3016/5016

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.

TFT Color
Touchscreen Interface

Removable
Rechargeable
Li-Ion Battery

One-handed Operation
with Start & Stop
on Handle

Removable
Temp / RH and
Isokinetic Probes

Easily Download
Data to PC

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/ft3
- Temperature/Relative Humidity Probe Included
- Test Wizard for Cleanroom Pass/Fail Reports:
- FS-209E, ISO-14644-1 or EU GMP Annex 1
- 50-record Congurable Recipe Database
- Easily Congurable Interface with Zoom Capability
- Open Architecture Connectivity with OPC Server

- Alphanumeric Location Labels
- Internal Audible Alarm
- Ergonomically Designed
- Lightweight

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

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

Handheld 3016 IAQ

Particle Counter

OUR 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 µg/m3. 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.

Mass Concentration Screen

Features

- 0.3 - 10 µm Size Range
- 0.1 CFM (2.83 LPM) Flow Rate
- View 6 Particle Sizes Simultaneously
- Approximate Mass Concentration in µg / 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^3
- 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

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

Product Selection Guide

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

	3016IAQ	5016
Size Range	0.3 - 10.0 µm	0.5 - 25.0 µm
Channel Size	0.3, 0.5, 1.0, 2.5, 5.0, 10.0 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 (specify 3 channels at time of order)
Counting Efficiency	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)

2016 / 3016 / 3016IAQ / 5016

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	8,000,000 particles / ft^3 @ 10% 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 Express, LMS Express RT, LMS Pharma, LMS Pro
Environmental Sensors	Temperature/relative humidity probe: 0-150°F (-17.8 to 65.6°C) ±1.8°F @ 77°F, 0-100% ± 5% @ 33%
Touch Screen Display	3.5" (8.89 cm), color TFT
Reports	FS-209E, ISO-14644-1 (1999, 2015) & EU 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 um)
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 (1 kg)
Languages	English (U.S.), Deutsch, Espanol, Italiano, Français, Russian, Japanese, Korean and Chinese.

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