Алматы (7273)495-231 Ангарск (3955)42-70-56 Архангельск (8182)63-90-72 Астрахань (8512)99-46-04 Барнаул (3852)73-04-42 Балговещенск (4162)35-142-07 Брянск (4232)59-03-52 Владивосток (423)249-42-31 Владикавказ (8672)42-90-42 Владикавказ (8672)42-90-42 Владимарказ (8472)45-90-42 Волоград (844)278-03-42 Воологда (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-142 Ижевск (3412)26-03-58 Иваново (4932)77-34-06 Иркутск (395)279-98-46 Казаны (843)206-01-42 Калининград (4012)72-03-81 Калиуга (4242)92-23-67 Киров (8332)68-02-04 Коломна (4966)23-41-49 Кострома (4946)23-41-49 Кострома (4946)23-41-49 Краснодар (861)203-40-90 Краснодар (861)203-40-90-26-47

Магнитогорск (4219)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-142-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Ноябрск (3496)41-32-12 Ноябрск (3496)41-32-12 Новосибирск (383)357-86-73 Ноябрск (3496)41-32-12 Омск (3812)21-46-40 Орел (4262)44-53-42 Оренбург (4232)37-68-04 Пенза (8412)35-31-16 Петрозаводск (8142)55-98-37 Псков (8112)59-10-37 Россия (495)268-04-70

Пермь (342)205-81-47 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-142 Самара (846)206-03-16 Саранск (8342)35-96-24 Саратов (845)249-38-78 Севастополь (8692)35-31-93 Симферополь (3652)67-13-56 Смоленск (4212)29-41-42 Сочи (862)242-72-31 Ставрополь (8652)20-65-13 Сыктывкар (8212)42-95-17 Сургут (3462)77-98-42 Тамбов (4752)50-40-97

Казахстан (772)734-952-31

Тверь (4352)63-31-42 Тольяти (8435)63-91-07 Томск (3835)98-41-53 Тула (4272)33-79-87 Тюмень (3452)66-21-18 Улан-Уда (3012)59-97-51 Улан-Уда (3012)59-97-51 Улан-Уда (3012)59-97-51 Уда (347)359-42-12 Хабаровск (4212)92-98-04 Челябинск (4212)92-98-04 Черяловск (4212)92-98-04 Черяловск (4212)92-98-04 Черяловск (4212)92-98-04 Черяловск (4212)92-98-04 Черяловск (4212)92-98-04 Черяловск (4212)92-99-97 Ярославль (4422)69-52-93

КАТАЛОГ

https://lighthouse.nt-rt.ru || iet@nt-rt.ru







SOLAIR Portable 1100LD

1.0 CFM - Airborne Particle Counter



he Lighthouse SOLAIR 1100LD (Laser Diode) leads the industry as the first of it's kind portable particle counter with 010 micron sensitivity and 1.0 CFM (28.3 LPM) flow rate using laser diode technology. Conventional HeNe (Helium Neon) particle counters require frequent cleaning, periodic Laser tube replacement and suffer low concentration limits. The SOLAIR 1100LD is designed to operate in ISO Class 1 to Class 7 cleanrooms without concerns of it degrading its environment or exceeding concentration limits. The SOLAIR 1100LD uses an optics and photodiode system designed to reduce or eliminate the temperature issues associated with high

power laser diode sensors. The thermally-controlled exhaust system and HEPA filter option prevent any external contamination. Weighing just 23.55 lbs (10.68 kg) with the Li-Ion battery option, the SOLAIR 1100LD is the smallest, lightest and coolest running 0.10 micron, 10 CFM portable particle counter on the market.

The easy to use icon-driven interface with multiple languages simplifies training and SOP writing. Its Cleanroom Standard report wizards make the SOLAIR 1100LD the preferred cleanroom certification tool and eliminate the need for complex UCL calculations. Its flexible communication and data logging capabilities enable the SOLAIR 1100LD to connect to Ethernet or RS-485 networks, connect point-to-point to a PC using USB or securely export its data to a USB Flash Drive. The SOLAIR 1100LD can be used as a portable instrument or easily integrated into a facility monitoring system.

Features

- 0.1 1.0 μm sensitivity
- 1.0 CFM (28.3 LPM) Flow Rate
- Up to 8 channels of simultaneous count data
- 21 CFR Part 11 Compliant Secure USB flash transfer
- Laser Diode Sensor Technology
- 5.7 inch color touch screen display
- Thermal Printer
- Stainless Steel Construction
- Ethernet / RS485 / Modbus, 4x 4-20mA analog outputs
- 3000-record Data Storage Memory
- 50-record Configurable Recipe Database
- Open Architecture Connectivity with OPC Server
- Report Wizard for Cleanroom Pass/Fail Reports: FS-209E, ISO-14644-1 or EU GMP Annex 1
- Multiple-language Support: English, French, German, Italian, Spanish, Chinese, Russian, Japanese, Korean



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8	T	U	V	W	X	Y	Z	1

User Friendly Configuration



PTB Room Area Class Leve Air Flow Room State	100 HA	ICT IDNAL	Min Lo Min Sa	s ations imples	4
Min Vols: #1*3	Ch1: 0.3 Ch2: 8.8 Ch3: 1.0 Ch4: 1.0	0.1 0.2 0.0 10.3	ChS: ChS	\$.0 10,8	31.3
incer		0	mat	10	CTUP

Multiple Cleanroom Standard Reports via Printer

Benefits

- 2 Year Warranty
- User Friendly Interface
- Easy-to-Read Display
- International Support
- Low Cost of Ownership

SOLAIR Portable 3100/5100

1.0 CFM - Airborne Particle Counters



HE SOLAIR 3100 and SOLAIR 5100 portable airborne particle counters incorporate our Extreme Life Laser Diode Technology sensor to produce the industry's longest laser diode life of 20+ years MTTF (based on continuous 24/7 operation). Using a new, lighter extended-life battery and external AC adapter, the SOLAIRs are even more portable. The SOLAIR features one of the industry's best User Interfaces (UI) to configure and operate the instrument with intuitive ICON-driven screens and menus that are simple, easy to learn and use.

The SOLAIR can store up to 3,000 records of particle count data from up to 8 particle channels and the configurable recipe database can store up to 50 recipes for sampling and reports. All data can be quickly and reliably



Benefits

- User Friendly Interface with Multiple Languages
- International Support
- 2 year Warranty
- Easy Integration to External Systems with OPC Server

Applications

- Cleanroom Monitoring
- Facility Certification Testing
- Trend Analysis
- Tool and Equipment Testing
- Multi-Point Facility Monitoring (with 6 or 32 port Manifold System)
- Compressed Gas Monitoring (with High Pressure Controller)

transferred to a computer, a Facility Monitoring System or a Building Automation System. Secure data transfer (per 21 CFR Part 11) to a USB Flash Drive can be accomplished by using the Lighthouse Secure Data transfer feature and LMS Express or Express RT software to read it. Flexible communications with these instruments is made possible by the integrated Ethernet, RS-485, USB and USB Flash Drive interfaces. SOLAIRs are designed, manufactured and calibrated to ISO 21501-4 to ensure particle counting accuracy.

Features

- SOLAIR 3100: 0.3μm to 25.0μm
- SOLAIR 5100: 0.5µm to 25.0µm
- 1.0 CFM (28.3 LPM) Flow Rate
- Simultaneous Display of up to 8 Particle Sizes
- 21 CFR Part 11 Compliant Secure Data Transfer via USB Flash Drive
- Extreme Life Laser Diode Technology >20-year MTTF Laser Lifespan
- Thermal Printer
- Stainless Steel Construction
- Designed for ISO 21501-4 Compliance: Unit-to-Unit Accuracy & Repeatability Assured
- Multiple Communication Interfaces USB, RS-485, Ethernet and USB Flash Drive
- 5.7-inch Color TFT Touch Screen Display
- 3000-record Data Storage Memory
- 50-record Configurable Recipe Database
- User-Definable Printouts
- Open Architecture Connectivity with OPC Server
- Report Wizard for Cleanroom Pass/Fail Reports: FS-209E, ISO-14644-1 or EU GMP Annex 1
- Multiple-language Support: English, French, German, Italian, Spanish, Chinese, Russian, Japanese, Korean

SOLAIR Portable 3200/5200

50 LPM - Airborne Particle Counters





HE SOLAIR 3200 and SOLAIR 5200 portable airborne particle counters incorporate our Extreme Life Laser Diode Technology sensor to produce the industry's longest laser diode life of 20+ years MTTF (based on continuous 24/7 operation). SOLAIRs incorporate one of the industry's best User Interfaces (UI) to configure and operate the instrument. The intuitive ICON-driven screens and menus are easy to learn and simple to use.

SOLAIRs can store up to 3,000 records of particle count data from up to 8 particle channels and the configurable recipe database can store up to 50 recipes for sampling and reports. All data can be quickly and reliably transferred to a computer, a Facility Monitoring

System or Building Automation System. Secure data transfer (per 21 CFR Part 11) to a USB Flash Drive can be accomplished by using the Lighthouse Secure Data transfer feature and LMS Express or Express RT software to read it. Flexible communication with these instruments is made possible by the integrated Ethernet, RS-485, USB and USB Flash Drive interfaces. SOLAIRs are designed, manufactured and calibrated to ISO 21501-4 to ensure particle counting accuracy.

Features

- SOLAIR 3200: 0.3μm to 25.0μm
- SOLAIR 5200: 0.5µm to 25.0µm
- 50 LPM or 2.0 CFM (56.6 LPM) Flow Rate
- Simultaneous Display of up to 8 Particle Sizes
- 21 CFR Part 11 Compliant Secure Data Transfer via USB Flash Drive
- Extreme Life Laser Diode Technology
- >20-year MTTF Laser Lifespan
- Thermal Printer
- Stainless Steel Construction
- Designed for ISO 21501-4 Compliance: Unit-to-Unit Accuracy & Repeatability Assured
- Multiple Communication Interfaces USB, RS-485, Ethernet and USB Flash Drive
- 5.7-inch Color TFT Touch Screen Display
- 3000-record Data Storage Memory
- 50-record Configurable Recipe Database
- User-Definable Printouts
- Open Architecture Connectivity with OPC Server
- Report Wizard for Cleanroom Pass/Fail Reports: FS-209E, ISO-14644-1 or EU GMP Annex 1
- Multiple-language Support: English, French, German, Italian, Spanish, Chinese, Russian, Japanese, Korean

Benefits

- User Friendly Interface with Multiple Languages
- International Support
- 2 year Warranty
- Easy Integration to External Systems with OPC Server

Applications

- Cleanroom Monitoring
- Facility Certification Testing
- Trend Analysis
- Tool and Equipment Testing
- Compressed Gas Monitoring (with High Pressure Controller)

SOLAIR Portable 3350/5350

100 LPM - Airborne Particle Counters



ITH fast, reliable sampling of one cubic meter of air in only ten minutes, the SOLAIR 3350 and SOLAIR 5350 portable airborne particle counters offer faster cleanroom qualification than 1 and 2 CFM counters and at sensitivities of 0.3 and 0.5 microns, respectively. SOLAIRs incorporate our Extreme Life Laser Diode Technology sensor to produce the industry's longest laser diode life of 20+ years MTTF (based on continuous 24/7 operation). The SOLAIR 3350 is the industry's only 100 LPM 0.3 micron portable designed for continuous use. SOLAIRs use the industry's best UI (User Interface) to configure and operate the instrument. The intuitive ICON-driven screens and menus are easy to learn and use, which simplifies SOP writing, and support multiple languages.

SOLAIRs can store up to 3,000 records of particle count data from up to 8 particle channels and the configurable recipe database can store up to 50 recipes for sampling and reports. All data can be quickly and reliably transferred to a computer, a Facility Monitoring System or Building Automation System.Secure data transfer (per 21 CFR Part 11) to a USB Flash Drive can be accomplished by using the Lighthouse Secure Data transfer feature and LMS Express or Express RT software. Flexible communication with these instruments is made possible by the integrated Ethernet, RS-485, USB and USB Flash Drive interfaces. SOLAIRs are designed, manufactured and calibrated to ISO21501-4 to ensure particle counting accuracy.

Features

- SOLAIR 3350: 0.3-25.0μm, 0.3μm @ 100 LPM
- SOLAIR 5350: 0.5-25.0µm, 0.5µm @ 100 LPM
- Samples 1 Cubic Meter in 10 Minutes @ 100 LPM
- Simultaneous Display of up to 8 Particle Sizes
- 21 CFR Part 11 Compliant Secure Data Transfer via USB Flash Drive
- Extreme Life Laser Diode Technology
- >20 Years MTTF Laser Lifespan
- Thermal Printer
- Stainless Steel Construction
- Designed for ISO 21501-4 Compliance: Unit-to-Unit Accuracy & Repeatability Assured
- Multiple Communication Interfaces USB, RS-485, Ethernet and USB Flash Drive
- 5.7-inch Color TFT Touch Screen Display
- 3000-record Data Storage Memory
- 50-record Configurable Recipe Database
- User-Definable Printouts
- Open Architecture Connectivity with OPC Server

- Report Wizard for Cleanroom Pass/Fail Reports: FS-209E, ISO-14644-1 or EU GMP Annex 1
- Multiple-language Support:
- English, French, German, Italian, Spanish, Chinese, Russian, Japanese, Korean

Benefits

- Reduced Sample Time of 1 Cubic Meter in 10 minutes
- User Friendly Interface with Multiple Languages
- International Support
- 2 year Warranty
- Easy Integration to External Systems with OPC Server

Applications

- Cleanroom Monitoring
- Facility Certification Testing
- Trend Analysis
- Tool and Equipment Testing
- Compressed Gas Monitoring (with High Pressure Controller)

SOLAIR Boulder Counter

1.1 CFM - Airborne Particle Counters



HE Lighthouse BOULDER COUNTER portable airborne particle counters incorporate our Extreme Life Laser Diode Technology sensor to produce the industry's longest laser diode life of 20+ years MTTF (based on continuous 24/7 operation). Designed to use a new, lighter extended-life battery and external AC adapter, the BOULDER COUNTER is even more portable. BOULDER COUNTERs feature one of the industry's best User Interfaces (UI) to configure and operate the instrument with intuitive ICON-driven screens and menus that are quick to document for SOPs, easy to learn and simple to use.

BOULDER COUNTERs can store up to 3,000 records of particle count data from up to 6 particle channels and the configurable recipe database can store up to 50 recipes for sampling and reports. All data can be quickly and reliably transferred to a computer, a Facility Monitoring System or a Building Automation System. Secure data transfer (per 21 CFR Part 11) to a USB Flash Drive can be accomplished by using the Lighthouse Secure Data transfer feature and LMS Express or Express RT software. Flexible communications with these instruments is made possible by the integrated Ethernet, RS-485, USB and USB Flash Drive interfaces. BOULDER COUNTERs are designed, manufactured and calibrated to standards that ensure particle counting accuracy and repeatability.

Features

- 5.0µm to 100.0µm sensitivity
- 1.0 CFM (28.3 LPM) Flow Rate
- Simultaneous Display of up to 6 Particle Sizes
- 21 CFR Part 11 Compliant Secure Data Transfer via USB Flash Drive
- Extreme Life Laser Diode Technology
- >20-year MTTF Laser Lifespan
- Thermal Printer
- Stainless Steel Construction
- Multiple Communication Interfaces USB, RS-485, Ethernet and USB Flash Drive
- 5.7-inch Color TFT Touch Screen Display
- 3000-record Data Storage Memory
- 50-record Configurable Recipe Database
- User-Definable Printouts
- Open Architecture Connectivity with OPC Server
- Report Wizard for Cleanroom Pass/Fail Reports: FS-209E, ISO-14644-1 or EU GMP Annex 1
- Multiple-language Support: English, French, German, Italian, Spanish, Chinese, Russian, Japanese, Korean

Benefits

- User Friendly Interface with Multiple Languages
- International Support
- 2 year Warranty
- Easy Integration to External Systems with OPC Server

Benefits

- Automotive Manufacturing
- Coating Processes
- Paint Booth
- Aerospace Flight and Space Hardware Manufacturing
- Flat Panel Display Manufacturing
- Medical Device Manufacturing

Product Selection Guide

	1100LD	3100		5100		
Size Range	0.10 - 1.0 μm	0.3 - 25.0 μm		0.5 - 25.0 μm		
Channel Sizes	Optional ranges up to 5.0 μm Standard: 0.10, 0.15, 0.2,	Standard: 0.3, 0.5, 1.0, 3.0, 5 Standard: 0.3, 0.5, 1.0, 5.0, 1	5.0, 10.0 μm l0.0, 25.0 μm	Standard: 0.5, 0.7, 1.0, 3.0, 5.0, 10.0 μm Standard: 0.5, 1.0, 3.0, 5.0, 10.0, 25.0 μm		
Flow Rate Counting Efficiency	0.25, 0.3, 0.5, 0.7, 1.0 μm 1.0 CFM (28.3 LPM) 50% @ 0.1 um: 100% @ sizes	8-Channel: 0.3, 0.5, 0.7, 1.0, 3.0 1.0 CFM (28.3 LPM) 50% @ 0.3 μm; 100% @ size), 5.0, 7.0,10.0 μm s	8-Channel: 0.5, 0.7, 1.0, 2.0, 3.0, 5.0, 7.0, 10.0 μm 1.0 CFM (28.3 LPM) 50% @ 0.5 um; 100% @ sizes		
Concentration Limits	> 0.15 µm per JIS B 9921 and ISO 21501-4 500,000 particles/ft3 (17,150,000 / m3) @ 5% coincidence loss	> 0.45 μm 1,000,000 particles/ft3 (35,300,000/m3) @ 10% coin Suitable for ISO classes 1-8	ncidence loss cleanrooms	> 0.75 µm 1,000,000 particles/ft3 (35,300,000/m3) @ 10% coincidence loss Suitable for ISO classes 1-8 cleanrooms		
Light Source	Laser Diode	Extreme Life Laser Diode		Extreme Life Laser Diode		
Dimensions	14.65"Lx8.0"Wx10.4"H (37x20x26cm)	Technology with > 20 year N 9.5"Lx8.0"Wx10.2"H (24.13	/ITTF x20.32x25.9cm)	Technology with > 20 year MTTF 9.5"Lx8.0"Wx10.2"H (24.13x20.32x25.9cm)		
Weight	With battery: 23.55 lbs (10.68 kg) Without battery: 20.45 lbs (9.28 kg)	With battery: 13.40 lbs (6.08 Without battery: 12.00 lbs (5	kg) 5.44 kg)	With battery: 13.40 lbs (6.08 kg) Without battery: 12.00 lbs (5.44 kg)		
	3200		5200	5200		
Size Range	0.3 - 25.0 um		0.5 - 25.0 um			
Channel Sizes	Standard: 0.3, 0.5, 1.0, 3.0, 5.0, 10.0 Standard: 0.3, 0.5, 1.0, 5.0, 10.0, 25.0 8-Channel: 0.3, 0.5, 0.7, 1.0, 3.0, 5.0, 8-Channel Optional: 0.3, 0.5, 0.7, 1.0,	μm μm 7.0, 10.0 μm 5.0, 7.0, 10.0, 25.0 μm	Standard: 0.5, 0.7 Standard: 0.5, 1.0 8-Channel: 0.5, 0. 8-Channel Option	Standard: 0.5, 0.7, 1.0, 3.0, 5.0, 10.0 μm Standard: 0.5, 1.0, 3.0, 5.0, 10.0, 25.0 μm 8-Channel: 0.5, 0.7, 1.0, 2.0, 3.0, 5.0, 7.0, 10.0 μm 8-Channel Optional: 0.5, 1.0, 2.0, 3.0, 5.0, 7.0, 10.0, 25.0 μm		
Flow Rate Counting Efficiency	50 LPM 50% @ 0.3 μm; 100% @ sizes > 0.45	μm	50 LPM 50% @ 0.5 um; 100% @ sizes > 0.75 μm			
Concentration Limits	700,000 particles/ft3 (24,710,000/m3) Suitable for ISO classes 1-8 cleanroon	@ 10% coincidence loss	700,000 particles/ Suitable for ISO c	700,000 particles/ft3 (24,710,000/m3) @ 10% coincidence loss Suitable for ISO classes 1-8 cleanrooms		
Light Source Dimensions	Extreme Life Laser Diode Technology 14.65"Lx8.0"Wx10.4"H (37x20x26cm	with > 20 year MTTF)	Extreme Life Lase 14.65"Lx8.0"Wx1	r Diode Technology with > 20 year MTTF 0.4"H (37x20x26cm)		
Weight	With battery: 20.90 lbs (9.48 kg) Without battery: 17.80 lbs (8.07 kg)		With battery: 20.9 Without battery:	With battery: 20.90 lbs (9.48 kg) Without battery: 17.80 lbs (8.07 kg)		
	3350	5350		Boulder Counter		
Size Range	0.3 - 25.0 μm	0.5 - 25.0 um		5.0 - 100.0 um		
Channel Sizes	Standard: 0.3, 0.5, 1.0, 3.0, 5.0, 10.0 μr Optional: 0.3, 0.5, 1.0, 5.0, 10.0, 25.0 μ	n Standard: 0.5, 0.7, 1. Im Optional: 0.5, 1.0, 3.	0, 3.0, 5.0, 10.0 μm), 5.0, 10.0, 25.0 μm	Standard: 5.0, 10.0, 25.0, 40.0, 50.0, 100.0μm		
Flow Rate Counting Efficiency	100 LPM 50% @ 0.3 μm; 100% @ sizes > 0.45	100 LPM μm 50% @ 0.5 μm; 100%	6 @ sizes > 0.75 μm	28.3 LPM 50% @ 5.0 um		
Concentration Limits	400,000 particles/ft3 (14,120,000/m3) @ 10% coincidence loss Suitable for ISO classes 1-8 cleanroon	400,000 particles/ft3 @ 10% coincidence I Suitable for ISO class	(14,120,000/m3) oss es 1-8 cleanrooms	500,000 particles/ft3 @ 5% coincidence loss		
Light Source	Extreme Life Laser Diode Technology	Extreme Life Laser D	iode Technology	Extreme Life Laser Diode Technology		
Dimensions	with>20year MTTF 14.65"Lx8"Wx10.4"H (37x20x26cm)	with > 20 year MTTF 14.65"Lx8.0"Wx10.4	"H (37x20x26cm)	with > 20 year MTTF 9.5"Lx8.0"Wx10.2"H (24.13x20.32x25.9cm)		
Weight	With battery: 26.15 lbs (11.86 kg) Without battery: 23.05 lbs (10.46 kg)	With battery: 26.15 ll W ithout battery: 23.	os (11.86 kg) 05 lbs (10.46 kg)	With battery: 13.40 lbs (6.08 kg) Without battery: 12.00 lbs (5.44 kg)		
Zero Count Level Calibration Count Modes Data Storage Communication Modes Supporting Software Environmental Sensors Touch Screen Display Reports Alarms Samplo Output	<1 count / 5 minutes (per JIS B 992 Meets ISO 21501-4 calibration usin Automatic, manual, beep, concentr 3,000 sample records, rotating buffi USB, Ethernet, RS-485, Secure Data LMS Express, LMS Express RT, LMS Optional (up to 4) temperature/rela 5.7 - inch (14.47 cm) color TFT touc Pass/fail report wizard for ISO-1464 Integrated alarm buzzer and extern 1100 L Model: Integratuk filtered for	1) g NIST traceable PSL sphere ation, cumulative/differential er (includes particle and envi a Transfer to and Storage on Pharma tive humidity, air velocity, dif h screen display I4-1, EU GMP Annex 1, and F al alarm connector. Alarms o 100% (© 0.1 um optional H	s, DMA and condens ronmental data, locat USB Flash Drive ferential pressure or o S-209E report forma n counts, low battery	ation Particle Counter tion and time) others ts , sensor failure		

EnclosureStainless SteelPower100-250 VAC, 47-63 HZBatteryOptional Li-Ion, removable & rechargeable (typical recharge time 7.5 hours)LanguagesEnglish (U.S.), French, German, Italian, Spanish, Chinese, Russian, Japanese, Korean

RemoteTRH

TEMPERATURE AND RELATIVE HUMIDITY SENSOR



he combined Remote TRH sensor is a cost effective and highly accurate sensor designed for cleanroom and controlled environment applications. The Remote TRH sensor has been designed to allow fast and easy installation and provides reliable protection in sterile cleanroom facilities.

The Remote sensor uses the latest sensor technology which offers long-term stability and resistance against pollutants. The enclosure is IP65/NEMA 4 rated and ideal for cleanroom applications. The sensor has been designed for easy on-site installation and comes in wall or duct mounted versions with fixed or extended probes to enable installation in challenging situations.

- Range 0-100% RH -40 to +60°C
- Enhanced Sensor Protection
- Simple On-site Installation
- Wall or Duct Mounted
- Cleanroom Wipe Down
- IP65/NEMA Enclosure
- Optional LCD Display
- 2 Year Warranty





RemoteTRH Temperature and Relative Humidity Sensor

Features / Models	TRH-W-03-25 or TRH-D-03-25	TRH-W-02-15 or TRH-D-02-15			
Working Range	0-100% RH/-4060°C	0-100% RH/-4060°C			
Accuracy at 20 °C	±2.5% RH/±0.3°C	±1.5% RH/±0.2°C			
Temperature Ranges	Operating: -4060°C (-4080°C for remote probe) Storage: -4060°C	Operating: -2050°C (-4080°C for remote probe) Storage: -2060°C			
Display	NotAvailable	Optional			
Outputs	4-20mA				
Power supply	10V + RL x 20 mA < V+ < 30V DC				
Connection	Screw terminals, max. 1.5 mm ²				
Housingmaterial	Polycarbonate, UL94V-0 (with Display UL94HB) approved				
Protection class	IP65/NEMA4				
Cable gland	M16	6 x 1,5			
Probe cable (type C)	PVC, Ø 4.3mm, 4 x 0.25 mm ²	² , Length: 1.5 or 3m (4.9 or 9.8ft)			
Electromagnetic compatibility	EN61326-1 EN61326-2-	-3 - Industrial Environment			

Remote TRH Sensor





RemoteRTD



he Remote RTD is a small, cost-effective high, accuracy temperature sensor suited for cleanroom applications and monitoring laboratory equipment where the product is stored. Ideal for incubator, oven, fridge, and freezer applications in your facility or basic room monitoring and storage facility monitoring for product storage.

With an easy installation, IP65 rated cable outlet, and IP65/NEMA 4 enclosure, the Remote RTD is most suitable for cleanroom applications requiring high protection class. The easy-install design enables secure mounting on vertical or horizontal surfaces.

Only one CAT 5/6 cable is required for power and communications.

- Multi-range measurement
- Smooth Cover and Cleanroom Friendly
- Simple On-site Installation
- Long Term Sensor Stability
- Bayonet Screws for Easy Access ¹/₄ Turn Rotation
- IP65/NEMA Enclosure
- Remote Probe Option with Different Cable
- 2 Year Warranty





RemoteRTD Temperature

Features / Models	Remote Air Velocity Sensor
Active Output	
Working Range	Remote probe: -30 °C +105 °C (-22 °F+221 °F)
Output	4 - 20 mA
Sensing Element	Pt1000 (class A, DIN EN60751)
Accuracy	±0.3 °C (±0.54 °F) at 20 °C (68 °F)
Power Supply	10 V DC + RL x 20 mA < V+ < 35 V DC
Electromagnetic Compatibility	EN61326-1, EN61326-2-3 - Industrial Environment
Passive Output	
Working Range	-30 °C…+105 °C (-22 °F…+221 °F)
T-sensor Connection	Two-wire
Electrical Connection	screw terminal, 2x max. 2.5 mm ² (0.004 in ²)
General	
Housing Material	Polycarbonate, UL94V-0 (with Display UL94HB) approved
Protection Class	Enclosure IP65/NEMA4, remote probe IP20
Cable Gland	M16x1.5, UL94-V2
Hose Clamp Material	stainless steel (corr. 1.4301/304)
Storage Temperature	-30 °C…+70 °C (-22 °F…+158 °F)
Storage And Working Humidity	5 % rh95 % rh, no condensation

Remote Temperature Sensor





Remote AIR VELOCITY SENSOR

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Air Velocity

LIGHTHOUSE

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perceptes all sensor is the lide as solutions for in aunidirlectionalEflovivoandenealtilatioitoriogiforatenin It is the Broth Grangenents address which industry steppleadenshe Risk Mitigation features of Self-Diagnostics and SmartBracket virtually eliminate data

The Remote AV Sensor has a highly accurate sensor

for measurement of low air velocity and is most Providing real time continuous data collection at a suitable for cleanroom and controlled environment cost effective price per point offering unmatched device monitoring such as isolators, cabinets, and biological safety cabinets.

Only one CAT 5/6 cable is required for power and Fcommunications? E S

- 0.2 10.0µm Particle Size Channels
- F.O EFM or OU OF MEFIcev Rates Available 68
- m
- 100
- 111
- 100
- VHP. Compatible Sensor and Housing Multi-range measurement 3,000 Onboard Data Record Storage Smooth Cover and Cleanroom Friendly Self- Diagnostics Simple On-site Installation Web Eunctionality to Monitor Data Long Term Sensor Stability Smart Bracket Bayonet Screws for Easy Access ¹/₄ Turn Rotation Customizable Data Reports IP65/NEMA Enclosure Built-In Status and Alarm Lights Wall Mounted or Duct Mounted
- - 122
 - Wall Mounted or Duct Mounted 2 Year Warranty 2 Year Warranty





T E C H N I C A L D A T A S H E E T

Remote AV Sensor S	pecifications Remote access via web browser
Advantum teter/Holdodels	Remote Air Velocity Sensor
	01 m/s (0200ft/min), 01.5 m/s (0300ft/min), 02 m/s (0400ft/min)
Putpat	24 VDC, PSEMA
Accuracy at 20 °C (68 °F)	0.151.5 m/s (30300 ft/min) ±(0.05 m/s (9.8 ft/min) +2% of mv)
Restores Time to	Typ. 4 sector typLifeses(at popstant temperature)
Power supply	24V AC/DC ± 20%
Zurrentionnsumplion for AC supply	< 1 Count / 5 minutes (meets are clifted that the sol with give play) reporting to with the selection of the
Current consumption for DC supply	max. 85 mA rms (with display), 41 mA rms (without display)
Display Options Available for all Models Angular dependence	Optional < 3% of the measured value at $\Delta \alpha$ < 10°
Software LMS Express or LMS Pharma Electrical connection	Screw terminals max. 1.5 mm ² (AWG 16)
Cable gland	M16x1.5
Electromagnetic compatibility	**************************************
Housing material	Polycarbonate, UL94V-0 (with Display UL94HB) approved
Protection class	32 THREAD INSERT
Working humidity and	Relative Humidity 595 % non-condensing
Temperature ranges	Working temperature probe -25 +50 °C (-13122°F)
	Working temperature electronic -10 +50 °C (14122°F)
	Storage temperature -30 +60 °C (-22140°F)
1) Selectable by jumper	AX a. 196 MOUNTING HOLE

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2) Response time t90 is measured from the beginning of a step change of air velocity

8

LIGHTHOUSE

SOLUTIONS

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(a)

RemoteDP

DIFFERENTIAL PRESSURE SENSOR

percentotes Presentisity elideal solution forin anighty a classate vireaso eertae Mon itowindiffeyetatial. It is the seate in Clean record on metats, the spinal stry statuorarofies, handiske Mitrigation contraction of Service Diag-TASTIREANOLS DP Serasters vittually guranate waters fron-flammable and non-aggressive gases.

Fiberianagtea Difinse as artiatterss to the Realectrica Cyta over affect new processor of the matches and t dataisnavailable on the analog voltage and current outputs.

The enclosure is IP65/NEMA, protecting the

- Felectronics against construction site damage and
- 0.2 10.0µm Particle Size Channels
- FO FM or OU ORMEFIcev Rates Available 68

- 100
- 111
- 100
- VHP Compatible Sensor and Housing Multi-range measurement 3,000 Onboard Data Record Storage Smooth Cover and Cleanroom Friendly Self- Diagnostics Simple On-site Installation Web Eunctionality to Monitor Data Long Term Sensor Stability Smart Bracket Bayonet Screws for Easy Access ¹/₄ Turn Rotation Customizable Data Reports IP65/NEMA Enclosure Built-In Status and Alarm Lights 2 Year Warranty 100
- 100





WebfitteDP Senso	r Specifications Remote access via web browser
Validation Mode	Yes
Atatures/Models	Remote Differential Pressure Sensor
Measurement principle	piezoresistive, no flow-through
Measurement range	±25/±50/±1200/mg(共95推/±0.2/±0.4 inch WC)
Accuracy at 20 °C (68 °F)	$\pm 0.5 Pa = \pm 0.5 \%$ Full Scale
Rightonsantime t90	50 ms / 500 ms / 2 git a gaseleptable with DIP switches
Temperature dependency	0.03Pa/K
Zeng-Cosmstabilisy	< 1 Count / 5 minutes (meets specifications of JIS B 992 Pane/r¥80/ting requirements of ISO 21501-4 Annex C)
Overload limits	± 7000 Pa (± 28 inch WC)
Analog outputs	0-5 V or 0-10V and 0-20 mA or 4-20 mA (3-wire)
Power supply	15 - 35 V DC or 24V AC ± 20%
Software LMS Express or LMS Ph Current consumption	arma 23 mA at 0 Pa / 24 V DC
Electrical connection	Spring terminals max. 1.5 mm ² (AWG 16)
Cable gland 6.82	6.82 5.560 - 5.560 - 5.560 - 5.750 - 5.750
Electromagnetic compatibility	EN61326-1, EN61326-2-3
Housing material	2X 10-32 THREAD INSERT
Protection class	Enclosure IP65 / NEMA4
Working humigitymend	Relative Humidity 095 % RH (non-condensing)
Temperature ranges	4x • .196 MOUNTING HOLE Operation: -20 +60 °C (-4140°F Storage: -40 +70 °C (-40158°F)
LOCATION ID	
	AX e. 196 MOUNTING HOLE

ApexZ AIRBORNE PARTICLE COUNTERS



hen you are looking to take your environmental monitoring program to the next level, the ApexZ is your solution. The power of the ApexZ starts with a complete system of self-diagnostics and is topped off with the most flexible data management system in the industry, all packaged in the lightest and smallest portable air particle counter on the market.

The ApexZ is the most innovative particle counter on the market and will be a timeless addition to any contamination control strategy.

- 0.3 10.0µm or 0.5µm-10µm Particle Size Channels
- 1.0 CFM or 100 LPM Flow Rates Available
- VHP Compatible Sensor and Housing
- Sealed Chemically Compatible Enclosure
- Bi-Directional Integration into LIMS EM Systems
- Hot-Swappable Smart Batteries
- Advanced Self-Diagnostics
- 21 CFR Part 11 Compliant
- Built-In Cleanroom Certification Reports
- 2 Year Warranty





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ApexZ Airborne Particle Counters

Features/Models	ApexZ3	ApexZ50			
Minimum Size Detection	0.3 µm	0.5 µm			
Standard 6 channel sizes	0.3, 0.5, 1.0, 3.0, 5.0, 10.0 μm	0.5, 0.7, 1.0, 3.0, 5.0, 10.0 μm			
Flow Rate	1.0 CFM (28.3 LPM)	100 LPM (3.5 CFM)			
Sample Inlet	3/8 Inch Inlet Barb	1/2 Inch Inlet Barb			
Concentration Limits	1,000,000 Particles/ft3@10% (35,300,000/m3)	300,000 Particles/ft3@10% (10,590,000/m3)			
	Coincidence loss suitable for ISO classes 1-8 cleanrooms	Coincidence loss suitable for ISO classes 1-8 cleanrooms			
Communication	Ethernet, USB standa	rd, Wi-Fi (802.11 b/g/n)			
Data Storage Records	10,000 Records, 2500 Locations, 250 Groups, 500 Presets,	500 Sample Plans, 500 Certifications, 100 Reports, 250 Users			
Count Modes	Sample, Concentration, Beep, Cust	om Recipes, and Certification modes			
Printer	Embedded panel-mount printer, also available w	vithout printer; print wirelessly via a network printer			
Reports	FED 209E, ISO 14644-1:1999, ISO 14644-1:2015, & EU	GMP 2022 regulatory pass/fail reports on screen or printer			
Self Diagnostics	Laser Power/Current/Supply, Flow out-of-ra	inge, No flow, PA Background/Supply/Health			
Alerts Enclosure	Chemically resistant polycarbonate ble	end, conductive lining, VHP compatible			
Touch Screen Display	User-configurable v	varnings and alarms			
Speakers	7.0 inch (8.89 cm), 1200 x 800 IPS color touch screen				
Carry Handle	2x adjustable up to 70 dB to indicate status and alerts				
Power	With RGB light pipe for status and alarms				
Light Source	External power supply: 24 VDC, 5 A max draw				
Calibration	Extreme Life Laser Diode				
Zero Count Level	ISO 21501-4 Compliant and Accredited ISO 17025				
Dimensions	< 1 Count / 5 minutes (meets specifications of JIS B 99)	21 and reporting requirements of ISO 21501-4 Annex C)			
Sample Output	12.76"(l)x6.23"(w)x8.88"(h),[32.41(l)x15.82(w)x22.55(h)cm]			
Vacuum Source	Internally filtered to HEPA standards (>99.97% @ 0	.3 μm); with rotatable exhaust fitting for directed flow			
Battery	Internal blower, au	tomatic flow control			
Temperature Humidity	2x Li-Ion battery slot capacity, removable and rechargeable, up to 11 hours nominal use, 50% duty cycle				
Weight	50°F to 104°F (10°C to 40°C), 20% to 95% relative humidity, non-condensing				
Languages	7.05 lbs (3.19 kg) without batteries	s, battery weight 1.35 lbs (0.61 kg)			
Environmental Sensors	English, Spanish, Portuguese, German, French, Italia	an, Russian, Chinese, Korean, Japanese, Turkish, Thai			
Supporting Software	Temperature/Relative Humidity probe: 0 to 150°F	(-17.8 to 65.6°C) ±1.8°F (0.5°C), 0-100% ± 2% RH			
	LMS Express, LMS Express RT, LMS Pr	narma, LMS Professional, LMS XChange			

Includes USB flash drive with lanyard, ISO probe 1 CFM (ApexZ3); 100 LPM (ApexZ50), ISP clamp, zero count filter, 24 VDC 5.0 amp power adapter and power cord, 10 feet of Beveline tubing 13/8" ID x 1/2" OD (ApexZ3); 1/2" ID x 5/8" OD BevXX (ApexZ50), 1 li-Ion smart battery included (2 battery slot capacity), 2x rolls of printer paper, Operators Manual on USB flash drive, Calibration Certificate

Optional USB Barcode Scanner, Temperature & humidity probe, 1 CFM isokinetic sample probe, USB Wi-Fi Dongle, high-pressure diffuser (ported or vented), li-lon batteries, Beveline tubing, external battery charger w/AC power cord, printed operators manual, carry case



ApexR5

ALREORNE PARTICLE COUNTERS

Apex represents everything that is important in a world class Environmental Monitoring System. It is the Best In Class sensor and meets all the industry standards. The Risk/Witigation features of Self-Diagfoelti-DiagnobSticarBid GreaviBcadkee Virturalty climinate elatarserrors.

Providing real time continuous data collection at a cost effective price per point offering unmatched performance, accuracy and reliability.

- 0.2 10.0µm Particle Size Channels
- 1.0 CFM or 0.1 CFM Flow Rates Available
- VHP Compatible Sensor and Housing
- 3,000 Onboard Data Record Storage
- Self- Diagnostics
- Web Functionality to Monitor Data
- Smant Bracket
- Customizable Data Reports
- Built-In Status and Alarm Lights





Apex Remote Airbonne Panticle Counters

Features / Wodels	Alex R35	ApexR5	Apex	ROMPoexR02	AAper893	Apex RQ5 xR05	
Minimum Size Detection	0.3 µm	0.5 µm		0.2 µm	.2 μm 0.3 μm		
Standard 2 change bizes	0/3:40.5 @mm	0.5, 5.0 µm	02 03	μθ ₂ , 0.3 μm	09309514	0.5, 5.0 µm 5.0 µm	
Optional 4 channel sizes	0.3, 0.5, 1.0, 5.0 µm	0.5, 1.0, 5.0, 10.0	µm	0.2, 0.3, 0.5, 1.0 µm	0.3, 0.5, 1.0, 5.0 μm	0.5, 1.0, 5.0, 10.0 µm	
AdditionalAwailalalazizes	0.07.53007,10003.00, 5.0, 7.0, 10.0) μ , , 3.0, 7.0 μm	0.2, 0.3	0057,0270 #100, 2.0 µm	0.9,70,3,00,00,010, 3.0, 5.0 µm	0.5, 0.70 \$ 0, 78 10, 5,0, 570, 700 10 0 m	
Flow Rate / Nozzle Size	1 CFM (28.3 LF	PM), 1/4" fittings		0.1 CFM (2.83 LPM), 1/8" inlet, 1/4" outlet fitting			
Weight	1.6 18 5 (19.5)	9.73kg)			1.4.459(0.63 (9)		
Concentration Limits	1,000,000 Particles/ft3	@10% coincidence	loss	4,0	000,000 Particles/ft3@10% (137,2	200,000/m3)	
	Suitable for ISO clas	sses 1-8 cleanroom	S	Coinci	dence loss suitable for ISO classe	s 1-8 cleanrooms	
Communication	Ethenesossarial.						
Modbus Protocols		TCPorRTU or ASCI					
Data Storage Records				3,0000			
Self Diagnostics	Laserj	power_supply,_laser	<u>current, la</u>	aser, power, photo detector power	supply, background voltage, phy	pto detector health.	
Web Server				Remotenateassessatiaweb	of powerser		
Validation Mode				<u>Y</u> es			
Alarm Light				Yelfes			
Enclosure				304 Stainless Stee	1		
Power				24 \$4DVDCFROVE			
External Vacuum Requirem	ents_			Nominal 1.0 CFM 18" (45.72	2 cm).of.Hg		
Light Source	ExtrematerbildelseerDicode						
Calibration		ISO 21501-4 Compliant and Accredited ISO 17025					
Zero Count Level	< 1 Count /ଶି	< 1 Count / 51 Giventes (ninetes (specificaciónstic) specifications by 15 89221 and reporting requirements of 1500-24509×4) Annex C)					
Dimensions				6.38"x2.93"x4.63",(16.2x7.4	1x11.7cm),		
Software.	LMS Proor LMS Xchange						

Options Available for all Models

Software LMS Express or LMS Pharma



Smart Bracket Wall Man marty Base



Smart Bracket Wall Manntr Thy wah Wall



HandHeld



he ergonomically designed and lightweight Lighthouse Handheld particle counters feature 0.2, 0.3, and 0.5 μm 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.

- 0.2 25.0µm 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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HandHeld Airborne Particle Counters

Features/Models	HH2016	HH3016	HH3016 IAQ(mass concentrations)	HH5016			
Minimum Size Detection	0.2 µm	0.3 µm	0.3 µm	0.5 μm			
Standard 6 Channel sizes	0.2, 0.3, 0.5, 0.7, 1.0, 2.0 μm	0.3, 0.5, 1.0, 3.0, 5.0, 10.0 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			
Additional Available sizes		0.7, 2.0, 2.5, 7.0, 25.0 μm		25.0 µm			
FlowRate/NozzleSize		0.1 CFM(2.	83 LPM),				
Weight		2.2 lbs (1 kg)				
Concentration Limits		8,000,000 Particles/ft3@10%	Coincidence loss suitable				
Communication		RS-232 via RJ-45 to P	C or optional printer				
Count Modes		Automatic, manual, beep, conce	ntration, cumulative/differential				
Data Storage Records	3,000 sa	imple records, rotating buffer, includes parti	cle and environmental data, location, an	d time			
Alarms		Internal, adjustable alarm on cou	nts, low battery, sensor failure				
Sample Inlet		Isokinetic sam	pling probe				
Sample Outlet		Internally filtered to HEPA standards (>99.97% @ 0.3 µm)					
Vacuum Source		Internal pump, auto	matic flow control				
Environmental Sensors	Direct Mount Te	mperature/Relative Humidity probe: 0-150°	F (-17.8 to 65.6°C)±1.8°F@77°F, 0-100%	%±5%@33%			
Enclosure		High impact injectio	n molded plastic				
Power		External power suppl	y: 12 VDC, 1.25 A				
Battery		Li-lon, removable a	nd rechargeable				
Light Source		Extreme Life L	aser Diode				
Calibration		ISO 21501-4 Compliant an	d Accredited ISO 17025				
Zero Count Level	<1 Count /5 mi	inutes (meets specifications of JISB 9921	and reporting requirements of ISO 2150	1-4AnnexC)			
Dimensions		8.75" (l) x 5.0" (w) x 2.5" (h), (22.23 x 12.70 x 6.35 cm)				
Software		LMSExpress,LMSExpressRT,LMS	Pharma,LMSPro,LMSXchange				
Languages	Engl	ish (U.S.), Deutsch, Espanol, Italiano, França	ais, Russian, Japanese, Korean and Chine	ese			
Includes - Removable batteny direct mount incretingtic sample probe: purge filter: temperature/relative humidity probe: power supply: power cord							

Includes Removable battery, direct mount insokinetic 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

Remote 100LD



Sing state-of-the-art long life laser diode technology, the Remote 1100LD Airborne Particle Counter is the industry's first laser diode based remote particle counter with a sensitivity of 0.1 µm at a high flow rate of 1.0 CFM (28.3 LPM) that uses an optics and photodiode system designed to reduce or eliminate the temperature issues associated with high power laser diode sensors.

Designed with reliability and quality in mind, the Remote 1100LD features our long-life laser diode technology that provides higher concentration limits, a better signal to noise ratio and requires less routine maintenance than conventional HeNe laser-based particle counters.

- 0.1-1.0 µm sensitivity
- 1.0 CFM (28.3 LPM) flow rate
- Up to 8 channels of simultaneous count data
- Worlds smallest 1.0 CFM 0.1 µm particle counter
- Meets ISO 21501-4 standards.
- Long life laser diode
- Status indicators; power, flow, service, sampling
- RS-485 Modbus or CEMS communications
- Stainless steel enclosure
- Interfaces to facility monitoring systems
- Designed to ensure 21 CFR Part 11 compliance
- 2 Year Warranty





Remote 1100LD Airborne Particle Counters

Features / Models	R1104		R1100
Minimum Size Detection	0.1 µm		0.1 µm
Standard 8 channel sizes	0.1, 0.15, 0.2, 0.25, 0.3, 0.5, 0.7,1.0 μm		N/A
Standard 4 channel sizes			0.1, 0.2, 0.3, 0.5 µm
Communication	Serial - 485 Modbus RJ45		CEMS
Modbus Protocols	SerialorASCII		N/a
Software	LMSExpress, LMSPharma, LMSProand LMSXchange		LMSXchange
Flow Rate / Nozzle Size		1 CFM (28.3 L	PM), 1/4" fittings
Concentration Limits	1,000,000 Particles/ft3@	10% Coincidence	loss suitable for ISO classes 1-8 cleanrooms
Data Storage Records		9	999
Self Diagnostics		laser current, ba	ackground voltage
Alarm Light		١	Yes
Enclosure		304Stair	nlessSteel
Power		24	VDC
External Vacuum Requirem	ents	Nominal 1.0 CFM	18" (45.72 cm) of Hg
LightSource		Extreme Life	e Laser Diode
Calibration	ISO 2	1501-4 Compliant a	and Accredited ISO 17025
Zero Count Level	< 1 Count / 5 minutes (meets specifi	cations of JISB 992	21 and reporting requirements of ISO 21501-4 Annex C)
Dimensions	10.5" (w)	x 7.65" (h) x 3.35"	(d); [26.67 x 19.43 x 8.51 cm]

Includes 24 VDC power adapter and power cord, Calibration Certificate, Purge Filter

Optional Temperature & humidity probe, 1 CFM isokinetic sample probe, 0.1 CFM isokinetic sample probe, Beveline tubing, printed operators manual

Remote 5104 AIRBORNE PARTICLE COUNTERS

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Frideria de a til de la constitución de la constitu exterrete states prince opereption flottering rohn Budhard betwompartoeing assures accuracy and reliability of the sensor's performance.

With a sensitivity of 0.5 µm and 1.0 CFM flow rate, Fthe Remote 9104 V provides real-time continuous

- 0.2ªta 6.0 ention at la Spatefinities price per point
 - and integrates seamlessly with facility monitoring 1.0 CFM or 0.1 CFM Flow Rates Available and building management systems. VHP Compatible Sensor and Housing

- 2,000 Anbpard DataRecord Storage

- Self- Diagnostics Class I Division 2 Rating Web Functionality to Monitor Data 0.5- 5.0 µm (optional channels up to 25 µm) Smart Bracket 1.0 CFM (28.3 LPM) flow rate Customizable Data Reports

- Up to 4 channels of simultaneous count data Built-In Status and Alarm Lights
- Real-time continuous monitoring
- 316L stainless steel, wash down splash tight enclosure
- Status indicators for power, flow, service, sampling
- **RS-485 Modbus communication**
- Interfaces to facility monitoring systems
- Uses external vacuum source
- 2 year warranty





More

Remote 5104V



Appro Remote/Richarte-Approtiche Partitle Counters

Features / Models	ApexR5	ApexR02	ApexR03	ApexR05				
Size Range		0.5 - 25.0 µm						
Standardd22d6laaren eiles	0.5, 5.0 μm	0.2, 0.3 μm 0.5, 5.0 μm; (0.5, 1.0, 5.0	29.0 μm	0.5, 5.0 µm				
Flow Rate		1.0 CFM (2.83 LPM)						
Additional Aceilable sizes	0.5, 0.7, 1.0, 3.0, 5.0, 7.0, 10.0 µm	0.2, 0.3, 0.5, 0.7, 1.0, 2.0 µmser Diode	0.3, 0.5, 0.7, 1.0, 3.0, 5.0 µm	0.5, 0.7, 1.0, 3.0, 5.0, 7.0, 10.0 µ				
Zero Count Level	<1 Count /5 minutes	(meets specifications of JIS B 9921 and r	eporting requirements of ISO 21501-4	AnnexC)				
Gaugen tration Limits	1.6 lbs (0.73 kg) 1,000,00	Particles/ft3@10% Coincidence loss suit	able for ISO classes (Opter to point	No.				
Data Storage		2,300						
Calibration	(34,300,000/m³) coincidence loss	ISO 21501-4 Complianhand Age	redites SQit 2025 for ISO classes	1-8 cleanrooms				
External Vacuum Requireme	nts	18" (45.72 cm) of	Hg					
Mödlaw Protocols		TCRindernRalliyUncomies	6011					
Communication Modes		Serial - 485 Modbus	RJ45					
SER Didgatetics	Laser power supply, laser current, l	aser power, phonoweletterot company	ansplippply, background voltage,	photo detector health.				
Connector		Industrial RJ-45	5					
Malidation Mode		316L Stainless steel, wassource of the standard states and the states of	esistant, splash tight					
Power		24 VDC						
Einabassiee s	5	.42" (I) x 2.14" (w) x 33684 (6); #18.1269 an 6(t)	əe5.43 cm (w) x 9.09 cm (h)]					
Weight		15.6 oz (0.44 kg)					
External Vacuum Requireme	ents	LIMBOERPIRESS, LIMSDFF1811118; LIV4859;	762andnt)/MSFXdgange					
Light Source 24 VDC power	adapter and power cord, Calibratic	on CertificateExtreme Life Laser I	Diode					
Calibration		ISO 21501-4 Compliant and Acc	redited ISO 17025					
Zero Count Level	< 1 Count / 5 minutes (meets	specifications of JIS B 9921 and	reporting requirements of ISO	21501-4 Annex C)				
Dimensions		6.38" x 2.93" x 4.63" (16.2 x 7	7.4 x 11.7 cm)					
Optional Temperature & hu Options Available for all Mo Purge Filter	midity probe, 1 CFM isokinetic samp odels	le probe, Beveline tubing, printe	d operators manual,					

Software LMS Express or LMS Pharma



Smart Bracket Wall Mount Through Base

Smart Bracket Wall Mount Through Wall

2X 10-32 THREAD

E



ScanAirPro SMART FILTER SCANNING AND FILTER EFFICIENCY TESTING SYSTEM

HE Lighthouse ScanAirPro System is a particle counter based HEPA/ULPA filter scanning system. It is the only particle counter based, integrated portable system for scanning HEPA/ULPA filters for filter efficiency testing.

Use it to scan filter media for leaks. Incorporating an ergonomic lightweight scanning probe with touchscreen user interface, the ScanAir Pro System also includes a SOLAIR portable particle counter and a dual-port dilutor that can be remotely switched between measurements from the touch screen handle.

When used in conjunction with an aerosol generator (producing DESH, Emery 3004, DOP, paraffin oils, salt solutions or PSL as upstream challenge); the ScanAirPro system allows you to take an upstream and downstream measurement that displays real-time percent leak information on the integrated touch screen display.

- 1 CFM sample rate.
- Detection limits down to 0.1 µm.
- 18 lbs (includes, particle counter, diluter, probe).
- Test filters according to ISO 14644-3
- Touchscreen user interface.
- Upstream and downstream mode of measurement.
- Automatic calculation of alarm threshold.
- Scans and sizes leaks.
- Display % leak during downstream mode.
- Display upstream or downstream measurements.
- Ideal for use on ladders or hard to reach places.







ScanAirPro Smart Upstream Sampling and Downstream Filter Scanning System.

Features		
Flow Rate	1.0 CFM (28.3 LPM)	
Adjustable Scan Head	YES	
Touchscreen User Interface	YES	
Upstream Measurements	YES	
Downstream Measurements	YES	
Standard Probe Cable and Tubing Length	3 meters (10 foot).	
Communication Integration	Solair Airborne Particle Counters.	
Headphone Jack	YES	
Enclosure	Stainless Steel	
Weight ScanAir Pro Sampling Probe and Head	6 oz (.17 kg)	
Weight Diluter	9.7 lbs (4.4 kg)	

Included

Operating manual on CD, USB interface cable, AC adapter, purge filter, and carry case.

Optional

Printed Operating Manual, LMS Express Software

Vertex50 LIQUID PARTICLE COUNTER



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Providing real time continuous data collection at a Johne Veffeteri50 joudiustoperstander of FRS r485 MADEBIUS pado4r2ance.communication protocols provide seamless integration into facility monitoring systems or can be used as a stand-alone device.

FUsingAtsIntegratedEethernet TCP/IP interface allows

- 0.1/2 Vertex5@inconsect to standard corporate
 - Ethernet LAN's as easily as it connects to facility 1.0 CFM or 0.1 CFM Flow Rates Available monitoring systems. VHP Compatible Sensor and Housing
- 5,000 Onboald Data Resord Storage
- Self- Diagnostics Channel sizes: 50nm, 100nm, 150nm, 200nm
- Web Functionality to Monitor Data Four channels of simultaneous count data 101
- 80
- Smart Bracket. 100 mL per minute flow rate Customizable Data Reports Built-in 3.5" color touch screen display Built-In Status and Alarm Lights 316L stainless steel construction 2 Year Warranty
- 100
- 2 Year Warranty Ethernet, RS485 Modbus Serial, 4-20mA
- NEMA style enclosure
- Integrated manual flow control
- Interfaces with existing facility management systems
- 2 Year Warranty







Xpete ReOnloge i di Plaotice Rottinke Counters

Features / Models	ApoxP5	AporP02	Apor P02	AnoxP05
Size Dange	чрехно	50 200 pm	Apexilos	Арехноз
Size kange		50 - 200 nm		l anien
Ethadune is channel sizes).5, 5.0 μm	0.2, 0.3 µm4	0.3, 0.5 µm	0.5, 5.0 μm
Standard Channel Sizes) nm, 100 nm, 150 nm, 200 nm		1
Additional Available sizes 0	λ.5, 0.7, 1.0, 3.0, 5.0, 7.0, 10.0 μm	0.2, 0.130,0.5ml.7mli0, 2.0 μm	0.3, 0.5, 0.7, 1.0, 3.0, 5.0 µm	0.5, 0.7, 1.0, 3.0, 5.0, 7.0, 10.0 µm
SampleVolume		5.0 mL/min		energy and the second s
ጀጫ General Count Level	1.6 lbs (0.73 kg)	≤ 20 count/L	1.4 lbs (0.63 kg)	04
Laser Source		Solid state laser		
Calibration (34,300,000/m³) coincidence los	s NIST traceable Coincide	ence loss suitable for ISO classe	es 1-8 cleanrooms
Communication Modes	Et	hernet, Serial RS-485, 4-20mA		
Niothbays Protocols		TFT color touch SprepRTU or	ASCII	
Concentration Limit	10,000	counts/mL @ 10% coincidence l	OSS	
58HDSalgRostics	Laser power supply, laser curren	t, laser166wiajn04886telector po	ower supply, background voltage	, photo detector health.
Sample Inlet/Outlet Connection	on	1/4" Flaretek™		
Makidation Maddeonditions Ope	erating 50°F to 104°F (10°C to 40°C), 20% to 95% and	-condensing	
Environmental Conditions Stor	rage 14°F to 122°F	(-10°C to 50°C), up to 98% non-	-condensing	
Earcipleur Eemperature		50°F to 122°F (10° 👀 🗗 🕄 🖓 🕹 ss	Steel	
Sample Pressure	20 F	SI to 72 PSI (138 kPa to 496 kPa	a)	
Betterdas Watacon MRtequiniement	ts Quartz	, PFA, Kangani RIFE ORCHWE SKE	45)72 cm) of Hg	
Communication Protocol	MODE	BUS TCP, MODBUS Serial, 4-20	mA	
Calibration E	External Supply: Rated input 12	0-2490 AG 50460 An DizAt and	AcRated Disput: 7028 DC, 5A	
Dimensions	9.0"(w) x 1	3.4"(d) x 8.4"(h) [22.9 x 34.0 x 2	21.3 cm]	and the state of the
D inightions		13.5.198 (62.93(9) 4.63" (16.1	2x7.4x11.7 cm)	se a disconservativamente e a disconta manta della Pala dal
includes 24V power adapter p	ower cord (US/UK/EU/CN), 1.8r	n USB-RS485 serial cable with	industrial connector, 25' Etherne	et cable with industrial

Software LMS Express or LMS Pharma kit, calibration certificate and carrying case.

Optional Printed operating manual; additional tubing, additional serial or Ethernet cables with industrial connector, flow cell cleaning kit.



T E C H N I C A L DATASHEET

LS20/60LIQUID BATCH SAMPLERS



he exiqued restants Saverage in a new anishing marteaunt in synonde slagspervandroptical plantic bringusty stem. It is the thes twith Calase as yn so rus ed White dosvall base id dustry stationardsnutertaRisk Mitigation features of Self-Diagnostics and SmartBracket virtually eliminate data Withs sample flow rate of 60 ml/min or 20 ml/min, the Liquid Batch Samplers provide unprecedented Pneaksurement speed antihaccuratata del hegtion at a tigh affective yosidinger pump beforing tighting have been and bighonolance.sensor, it is the perfect tool for multiple batch sampling applications.

The Liquid Batch Samplers are easy to configure Farta operate U Data to automatically recorded and

- 0.22 adily.opmileble in real-time graph and tabular form.
 - Reports can be preconfigured and printed at the 1.0 CFM or 0.1 CFM Flow Rates Available touch of a key. VHP Compatible Sensor and Housing
- 3,000 Onboard Data Record Storage
- FelfE Diagrostics R E S
- Web Functionality to Monitor Data 0.1-100.0µm or 1.0µm-50µm Particle Size Channels
- Smart Bracket Sample volumes 1mL to 1 Liter
- Customizable Data Reports
- Built-In Status and Alarm Lights
 Precise syringe pump flow control
- 2 Year Warranty Stainless steel enclosure
- Built-in magnetic stirrer
- Compact footprint
- RS-485 MODBUS communication
- 2 Year Warranty





AipexcReatchtes Ainpleme Particle Counters

Features / Wodblis	LSAGexR5	ApexR02	LS60 ApexR03	ApexR05
Minimum Size Detection	1.0 µm		0.1 µm	
Standard & channel zizes	1.0,52,6,0.0 μm	0.2, 0.3 µm	0.1, 0.150.0,200525m0.3, 0.35, 0.4, 0.5 μm	0.5, 5.0 μm
Size Ranges	User definable 1.0 - 50.0 µm		0.1 - 0.5 μm; 0.2 - 2.0 μm; 0.3 - 3.0 μm; 0.5 - 100.0 μm	
AdditiBateAvailable sizes	20.6)107)ih0;19.0, 5.0, 7.0, 10.0 µm	0.2, 0.3, 0.5, 0.7, 1.0, 2.0 µm	60 ml/m0n3, 0.5, 0.7, 1.0, 3.0, 5.0 μm	0.5, 0.7, 1.0, 3.0, 5.0, 7.0, 10.0 µm
Reports	Current USP, EP, JP, KP, CP and custom recipes		Current USP, EP, JP, KP, CP and custom recipes	
Cashe Stoutign Limits	1,000,000 Particles/ft ³ @10% Laser_Digge000 Particles/ft ³ @10% (137.200.000/m ³)		000/m³)	
Calibration	NIST Traceable			0 0001100110
Byorn Marken	Ethelfletbr25emil.			
Maximum Sample	1 Liter			
Gata Bunigation Made	RS-485000BUS			
Wetted Components	Teflon (PFA), Quartz, Kalrez, Kel F, Polypropylene			
Web Gerver	Relagnetic with a plivetable are d			
Connectors	RJ-45			
Sulphortighe Software	LS20 Software LS60 Software			
Enclosure	Stainless Steel			
Power	10022400 (AGo24 VDC			
Dimensions	12.875"(l) x 8.75"(w) x 14.75"(h) [32.7 x 22.2 x 37.5 cm]			
Wgligbource	Extren 20 5 fb & 1 Sed de			
Environmental Conditions	Operating: 50°F to 104°F (10°C to 40°C) / 20% to 95% non-condensing			
Zero Count Level	< 1 Count / 5 minute States 54 Cfrites 1/378 Ef (1598 G 12 7 9 n a) + 48 tan 38 count - 1 Count / 5 minute States 54 Cfrites 1/378 Ef (1598 G 12 9 9 2 1 2 0 1 - 4 Annex C)			
Minimum System Requirem	ent Windows 7TM or Windows 10TM compatible computer.			
Options Available for all Mo	odels			

Software LMS Express or LMS harma nut and ferrule kit, 2x magnetic stir bars; Operators Manual on USB key; Calibration Certificate and Carry Case with wheels. Smart Bracket Wall Mount Flush Smart Bracket Wall Mount Through Base Smart Bracket Wall Mount Through Wall 6.82 Optional Printed operating manual, IQ/OQ Validation Documents, 10m sytinge; 5-piece beaker set (50, 100, 250, 600, 1000 m, beakers). certificate of origin 2X 10-32 THREAD INSER 1.150 THREAD INSERT 1 ø .625 .625 100. • E. .196 MOUNTING HOLE LOCATION ID BOARD

RemoteLPC

REMOTE LPC 0.5um

LIGHTHOUSE

REMOTE LPC 0.3µm

LIGHTHOUSE

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- 0.2 5.0.0pmP & aticle Size Channels s
- 100GFIMer MihuteMotionates Available
- VEB Statopanidikators for product ausingervice
- 4,200h @ndp 0400 DBUS Rectprod Storage
- Freedulation of the second state of the sec
- 🛯 🕅 တြက္ခရာက္ခရာစာality to Monitor Data
- £783151787879697treliability
- Systanwizahan Data Reports
- Built-In Status and Alarm Lights
- 2 Year Warranty





Apero Reinoted Rightoche Chantie esCounters

Features / Models	Remotes PC0.1	Remoted PC0.2	Remote PBC 0.3	Remote-L-R-R05
Minimum Size Detection	0.1 µm	0.2 µm	0.3 µm	0.5 µm
Standauch2chhannsizes 20mA	0 d. .9.8.000m	0. 0,2 ,3),3mjum	0.3, 0.5 μ0τ5 μm	0.5, 1.0 pr8, 5.0 µm
Optional 2 Channel 4-20mA	0.1, 0.3; 0.1, 0.5 µm	0.2, 0.3; 0.2, 1.0; 0.2, 2.0 µm	0.3, 0.7; 0.3, 2.0; 0.3, 3.0 µm	0.5, 2.0; 0.5, 5.0 µm
Standard A Channels Modbus	00,50027, 0,3, 9,05 5,00, 7.0, 10.0 µm	0.0,20,0,30,50,50,70µ701.0, 2.0 µm	0.3, 0.5, 0.7, 0.7, 110, 3.0, 5.0 µm	0.5, 0.7,0150027,010,03.0, 5.0, 7.0, 10.0 µm
Optional 4 Channels Modbus	1 (**) 5 (**) 5 3 (*) *) -	0.2, 0.5, 1.0, 2.0 µm	0.3, 0.5, 1.0, 3.0 µm	0.5, 1.0, 2.0, 5.0 μm
Gangentration Limit	64,000 counts/mg @s5% rgincidence error	4,000 counts/ml @_5% psincides ce error		
Concention Limits	1,000,000 Particles/ft3@10%	,000,000 Particles/ft ³ @10% 100 mL4,0000 Particles/ft ³ @10% (137,200,000/m ³)		
Laser Source		Laser Diode		
Califmatication	Ethe NIST Daceable I.			
Data Storage	Rotating buffer 2,000 records (modbus models)			
Comments in the Mondes	RS232/485 via RJ45 to PC, RS4850000bus, ASCII, Modbus or MR protocol			
LED Indicators	Power, Sampling (4-20mA model); Power, Service, Sampling (485 modbus model)			
Weersal Alarm Output	Norrel appredat costactinated day Avide 1 Amp			
Enclosure	Stain <u>le</u> ss steel			
SampleLight/Outlet Conne	ction 1/4"\earrowed area the second sec			
Sample Temperature	32- <u>140°F(0-60°C</u>)			
Sample Pressure	24 VD50,F86E			
Wetted Surface Materials	Quartz, PTĘĘ_PFA			
Eight Source	Extreme Life4Mager Diode			
Dimensions		5.7"(I) x 5.2"(w) x 3.0"(h) [14.47 x 13.2 x 7.6 cm]		
Waig Count Level	< 1 Count / 5 minutes (mee	< 1 Count / 5 minutes (meets specifications of JIS B-5/92(1/ 58kg)eporting requirements of ISO 21501-4 Annex C)		

DriversionBower supply; tubing; flow cell cleaning, brush with Micro90 cleaning.93"x 4.63" (16.2 x 7.4 x 11.7 cm)

Options Available for all Models Optional Printed operating manual; flow control device; sample tubing; Software LMS Express or LMS Pharma cabling; flaring kit; flare nuts; LPC stand with flow meter mount; LMC flow meter

AISMART Brecket Wall Mount Through Base



Smart Bracket Wall Mount Through Wall



ActiveCount



he ActiveCount family is a set of high performance portable active air samplers suitable for use in cleanrooms and aseptic environments. They offer self-adjusting flow control to ensure accurate sampling, as well as continuous and periodic sampling modes for optimum sampling flexibility.

ActiveCount100H and ActiveCount25H come with HEPA filtered exhaust, a removable magnetic baseplate, a stainless steel sampling head and dust cover.

- Wipedownable and suitable for sterile conditions
- Autoclavable sampling head and dust cover
- ISO 14698-1 compliant
- 50 programmable user names
- 400 programmable location names
- Data logging to USB flash drive
- Password security for sample settings
- Continuous, Periodic and Gas sampling modes
- Battery with 8-10 hours normal use
- 2 Year Warranty





ActiveCount Microbiological Samplers

Features / Models	AC100H	AC100	AC25H	
Flow Rate	100 liters/minute	100 liters/minute	25 liters/minute	
Petri Dish Holder	Removable, magnetic and autoclavable	Fixed	Removable, magnetic and autoclavable	
Impactor Head	316LSS with 300 holes, 19m/s, d50: 1µm	316LSS with 300 holes, 19m/s, d50: 1µm	316LSS with 88 holes 19m/s, d50: 1µm	
Weight	6.75 lbs. (3.06 kg)	5.80 lbs. (2.63 kg)	5.80 lbs. (2.63 kg)	
Dust cover	•	316L Stainless Steel, autoclavable		
Dish compatibility	Compatible with stan	Compatible with standard 90 mm petri dish (85mm-92mm) and Rapid Micro Bio Systems Cassette		
Sample volume presets		8 Programmable volume presets		
User names		50 Programmable user names		
Location names		400 Programmable location names		
Display		3.5 inch (8.9 cm) color touch screen		
LED light	RGB LED light for status, alerts and alarms			
Speaker	Adjustablespeakervolume			
Time/Date formats	Time format 12 or 24 hours, Date formatsYYYY/MM/DD, MM/DD/YYYY, DD/MM/YYYY			
USB port	USB 2.0 port			
Data records	Unlimited; saved on USB fl drive in .csv fi format			
Log file data fields	Start date, time, location, user, sample duration, fl w duration, volume, cycles, status			
Active flow control	Actively controlled air fl w			
Handle - tripod mountable	Tripod mountable handle 3/8-16, includes 1/4-20 threaded adapter			
HEPA filtered exhaust (H n	models) HEPA fi ered exhaust captures 99.97% of particles at 0.3 μm			
Enclosure	316L Stainless Steel			
Power		24VDC power adapter (100-240V ~ 1.5A 50-60Hz)		
Battery	8 Hours contir	nuous sampling or 10 hours normal sampling use, 4 hours cl	narge time	
Weight	6.75 lbs. (3.06 kg)			
Calibration	ISO 17025 Accredited			
Operating environment	0-90% Humidity non condensing, 0-40°C sampling, 0-35°C charging			
Dimensions	7.6"(h)x4.7"(w)x4.7"(d) [19.4(h)x12.0(w)x12.0(d)cm]			
Carry case		Pelican case with Lighthouse Worldwide Solutions logo		
Includes ActiveCount, 316L	stainlees steel sample head, 316L stainless ste	eel dust cover, removable magnetic baseplate(If applicable), blower inlet seal,	

Petri dish adjustment tool, USB flash drive, 1/4-20 threaded tripod adapter, 24 VDC power adapter with cord, calibration certificate, carry case.

Optional Remote impactor kit, Rapid Micro Bio Systems Kit, compressed gas sampler, tubing, cleanroom tripod, IQ/OQ protocols.

ActiveCountR



IGHTHOUSE designed the ActiveCountR system to meet the industry need for continuous trouble-free operation and flexible running parameters. The ActiveCountR utilizes an external vacuum source which can be an independent pump system, house vacuum or a shared vacuum source with non-viable particle counters.

The sampling head is designed to be remote mounted within the critical sampling environment. The sampling head comes in a bottom mount and side mount design. The remote sampling switch allows the operator to start, stop or pause sampling without having to intervene into the critical area being sampled. Sampling can also be controlled via software.

- Meets EN 17141 impaction efficiency
- 1 CFM flow rate
- Local or remote start/stop control via software
- External vacuum source for clean operation
- Stainless steel enclosure
- LED status indicators for power, flow and sampling
- Auto power fail recovery
- 316L stainless steel sampling head
- Designed for reliability
- 2year warranty





T E C H N I C A L D A T A S H E E T

ActiveCountR Viable Impactor System

Features/Models	ActiveCountR
Flow Rate	1 CFM
Sampling Methodology	ImpactionPrinciple
Impactor Head	316LSS with 113 holes, 19m/s, d50: 1.2µm
Communication Protocol	RS-485 Modbus
LED Indicators	Power, Flow, Sampling
User Interface	Manual Start/Stop; Control Software (LMS Express)
Communication Connectors	Switch: Liquid-tite cord grip; Controller: RJ45
Enclosure	Stainless Steel
Sample Outlet Connection	1/4"Barb
Vacuum Requirements	16 in HG
Power	24VDC
Dimensions Impactor	Diameter: 4.41"(11.20 cm), height 2.1" (5.33 cm)
Dimensions Switch	5.8"(w)x2.7(h)x1.0"(d)[15x6.9x2.5cm]
Dimensions Controller	W 8.0"(w)x5.0(h)(20.32 cm),H 5.0"(12.7 cm),D 3.0"(7.62 cm)
Weight Impactor	Impactor: 4.4 lbs (2.00 kg)
Weight Switch	Switch 0.59 lbs (0.27 kg)
Weight Controller	Controller: 2.6 lbs (1.18 kg)
Operating	Operating 50°Fto 104°F (10°Cto 40°C)/20% to 95% non-condensing
Storage	Storage14°Fto122°F(-10°Cto50°C)/Upto98% non-condensing
Includes Power supply, sample tubing	

Optional Printed installation guide; LMS Express

Алматы (7273)495-231 Ангарск (3955)42-70-56 Архангельск (8182)63-90-72 Астрахань (8512)99-46-04 Барнаул (3852)73-04-42 Белгород (4735)40-23-142 Благовещенск (4162)35-142-07 Брянск (4232)59-03-52 Владиявска (8672)42-90-42 Владиямер (4935) 49-43-18 Волгоград (844)278-03-42 Вологда (8172)26-41-59 Воронеж (473)204-51-73 Екатериибург (343)384-55-142 Ижевск (3412)26-03-58 Иваново (4932)77-34-06 Иркутск (395)279-98-46 Казань (843)206-01-42 Калининград (4012)72-03-81 Калуга (4242)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Коломна (4962)23-41-49 Кострома (4942)77-07-42 Краснодра (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Курган (4352)50-90-47 Липецк (4742)52-20-81

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https://lighthouse.nt-rt.ru || iet@nt-rt.ru

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