ApexRemoteWithPump

AIRBORNE PARTICLE COUNTER WITH PUMP

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 Mitigation features of Self-Diagnostics virtually eliminate data errors.

Apex Remote with pump models are available with either 0.1 CFM or 1.0 CFM airflow rates. The self contained vacuum pump includes HEPA filtered exhaust and will not contaminate the surrounding environment.
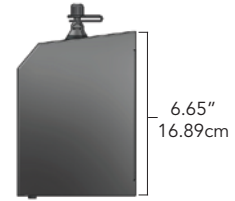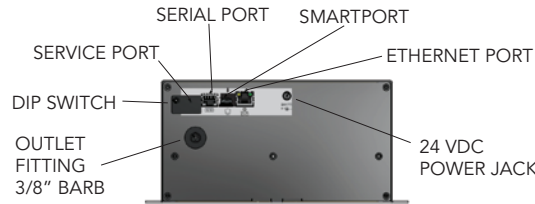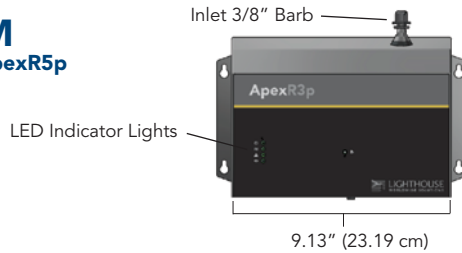
Apex provides real time continuous data collection at a cost effective price per point offering unmatched performance, accuracy and reliability.

Apex provides all this in an enclosure that is compatible with industry standard decontamination processes.
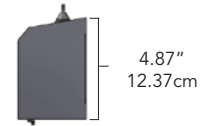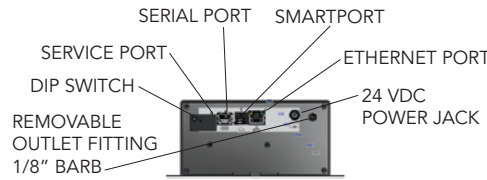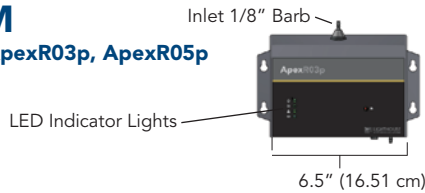
FEATURES

- 0.2 – 10.0 µm Particle Size Range
- 1.0 CFM or 0.1 CFM Flow Rates
- 3,000 Records Data Storage
- Self-Diagnostics
- Web Browser
- Smart Port
- Validation Mode
- Built-in Alarm LED
- Built-in vacuum pump with HEPA filtered exhaust
- 2 year warranty

LIGHTHOUSE
WORLDWIDE SOLUTIONS

1.0 CFM
ApexR3p, ApexR5p

Inlet 3/8" Barb

LED Indicator Lights

SERIAL PORT
SMARTPORT
SERVICE PORT
ETHERNET PORT
DIP SWITCH
OUTLET FITTING 3/8" BARB
24 VDC POWER JACK

9.13" (23.19 cm)

6.65" 16.89cm

0.1 CFM
ApexR02p, ApexR03p, ApexR05p

Inlet 1/8" Barb

LED Indicator Lights

SERIAL PORT
SMARTPORT
SERVICE PORT
ETHERNET PORT
DIP SWITCH
24 VDC POWER JACK
REMOVABLE OUTLET FITTING 1/8" BARB

6.5" (16.51 cm)

4.87" 12.37cm

TECHNICAL DATASHEET

Apex Remote With Pump Airborne Particle Counters With Pumps

Features / Models	ApexR3p	ApexR5p	ApexR02p	ApexR03p	ApexR05p
Minimum Size Detection	0.3 µm	0.5 µm	0.2 µm	0.3 µm	0.5 µm
Standard 2 channel sizes	0.3, 0.5 µm	0.5, 5.0 µm	0.2, 0.3 µm	0.3, 0.5 µm	0.5, 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
Additional Available sizes	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	0.2, 0.3, 0.5, 0.7, 1.0, 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
Flow Rate	1.0 CFM (28.3 LPM)		0.1 CFM (2.83 LPM)		
Dimensions	6.65"(h) x 9.13"(w) x 4.75"(d) [16.89 x 23.19 x 12.06 cm]		4.87"(h) x 6.50"(w) x 3.26"(d) [12.37 x 16.51 x 8.28 cm]		
Weight	6.3 lbs (2.9 kg)		3.1 lbs (1.4 kg)		
Communication	Ethernet or Serial.				
Modbus Protocols	TCP or RTU or ASCII				
Data Storage Records	3,000				
Self Diagnostics	Laser power supply, laser current, laser power, photo detector power supply, background voltage, photo detector health.				
Web Server	Remote access via web browser				
Validation Mode	Yes				
Alarm Light	Yes				
Enclosure	316L Stainless Steel				
Power Supply	24 VDC 120W (ApexR3p, ApexR5p), 24 VDC 25W (ApexR02p, ApexR03p, ApexR05p)				
Internal Vacuum Pump	1.0 CFM (ApexR3p, ApexR5p), 0.1 CFM (ApexR02p, ApexR03p, ApexR05p) with HEPA Filtered Exhaust				
Light Source	Laser Diode				
Calibration	Designed for ISO 21501-4 Compliance				
Zero Count Level	<1 count/5 minutes per ISO 21501-4				
Concentration Limits 1.0 CFM	1,000,000 particles/ft^3@10% (34,300,000/m^3) coincidence loss suitable for ISO classes 1-8 cleanrooms				
Concentration Limits 0.1 CFM	4,000,000 particles/ft^3@10% (137,200,000/m^3) coincidence loss suitable for ISO classes 1-8 cleanrooms				
Counting Efficiency	50% @ minimum channel size, 100% for particles >1.5 X - 2X channel particle size				

Options Available for all Models

Software: LMS Express, LMS Express RT or LMS Pharma.

Wall Mount Bracket: Wall mountable.

Smart Port Accessories: Coming soon.

1.0 CFM Wall Mount Bracket

0.1 CFM Wall Mount Bracket

Distributed By:

CE

MADE IN USA

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

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