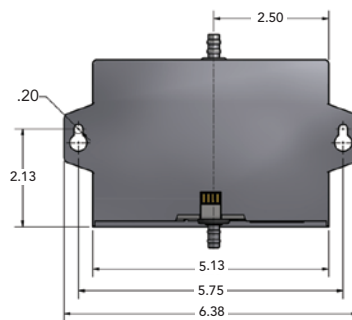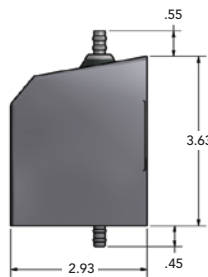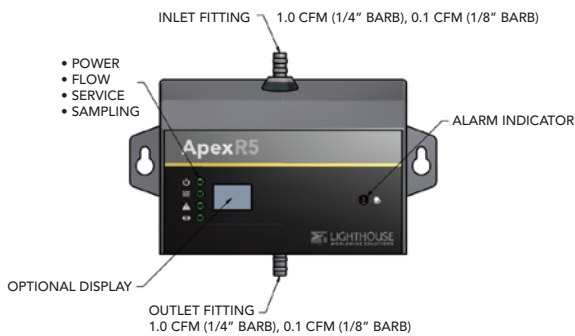# ApexRemote

AIRBORNE 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 Mitigation features of Self-Diagnostics and SmartBracket virtually eliminate data errors.

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 Bracket.
- Validation Mode.
- Built in Alarm Light.
- 2 year warranty.

LIGHTHOUSE
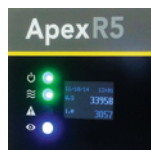WORLDWIDE SOLUTIONS

INLET FITTING — 1.0 CFM (1/4" BARB), 0.1 CFM (1/8" BARB)

- POWER
- FLOW
- SERVICE
- SAMPLING

ApexR5

ALARM INDICATOR

OPTIONAL DISPLAY

OUTLET FITTING — 1.0 CFM (1/4" BARB), 0.1 CFM (1/8" BARB)

.55
3.63
2.93
.45

2.50
.20
2.13
5.13
5.75
6.38

TECHNICAL DATASHEET

Apex Remote Airborne Particle Counters

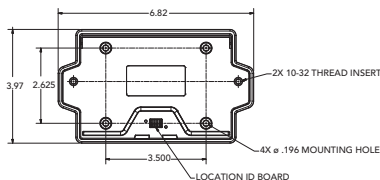| Features / Models	ApexR3	ApexR5	ApexR02	ApexR03	ApexR05
Minimum Size Detection	0.3 µm	0.5 µm	0.2 µm	0.3 µm	0.5 µm
Standard 2 channel sizes	0.3, 0.5 µm	0.5, 5.0 µm	0.2, 0.3 µm	0.3, 0.5 µm	0.5, 5.0 µm
Optional 4 channel sizes	0.3, 0.5, 1.0, 5.0 µm	0.5, 1.0, 5.0, 10.0 µm	0.2, 0.3, 0.5, 1.0 µm	0.3, 0.5, 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 / Nozzel Size	1 CFM (28.3 LPM), 1/4" inlet and outlet fitting		0.1 CFM (2.83 LPM), 1/8" inlet and outlet fitting		
Weight	1.6 lbs (0.73 kg)		1.4 lbs (0.63 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, backround voltage, photo detector health.				
Web Server	Remote access via web browser				
Validation Mode	Yes				
Alarm Light	Yes				
Enclosure	304 Stainless Steel				
Power	24 VDC, PoE				
External Vacuum Requirements	Nominal 1.0 CFM 18" (45.72 cm) of Hg				
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/ft³@10% (34,300,000/m³) coincidence loss suitable for ISO classes 1-8 cleanrooms				
Concentration Limits 0.1 CFM	4,000,000 particles/ft³@10% (137,200,000/m³) 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				
Dimensions	6.38" x 2.93" x 4.63" (16.2 x 7.4 x 11.7 cm)				

Options Available for all Models
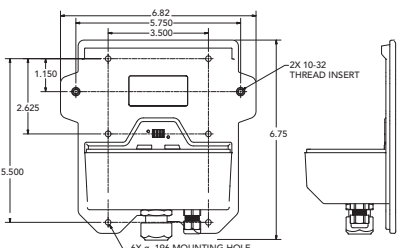
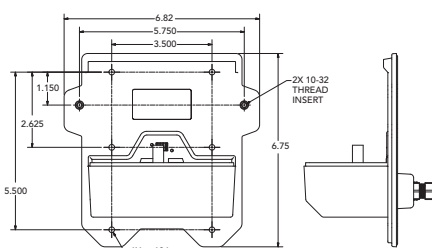**Software** LMS Express or LMS Express RT or LMS Pharma

OLED Display

Smart Bracket Wall Mount Flush

6.82
3.97   2.625
3.500
2X 10-32 THREAD INSERT
4X ø .196 MOUNTING HOLE
LOCATION ID BOARD

Smart Bracket Wall Mount Through Base

6.82
5.750
3.500
1.150
2.625
2X 10-32 THREAD INSERT
6.75
5.500
6X ø .196 MOUNTING HOLE

Smart Bracket Wall Mount Through Wall

6.82
5.750
3.500
1.150
2.625
2X 10-32 THREAD INSERT
6.75
5.500
6X ø .196

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CE

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LIGHTHOUSE WORLDWIDE SOLUTIONS