Apex**Remote**

AIRBORNE PARTICLE COUNTERS

Apex**R5**

01/28/15   15:41
0.5   591
5.0   48

LIGHTHOUSE
WORLDWIDE SOLUTIONS

LIGHTHOUSE
WORLDWIDE SOLUTIONS

Data**Integrity**

R I S K   M I T I G A T I O N

Self-Diagnostics

The Apex Remote was designed with internal Self-Diagnostic technology that continuously monitors the health of the laser ensuring reliability of the particle count data.

Apex Self-Diagnostics on the laser, flow rate, and particle detector ensure that data being collected is operating within specified tolerances.
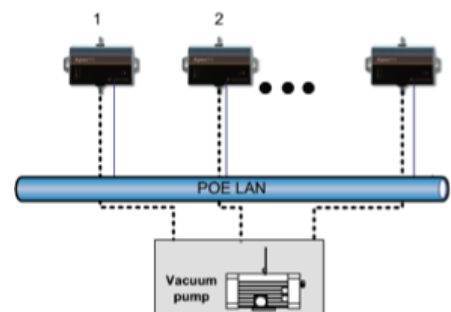

Smart**Bracket**

SmartBracket was designed with a built -in automatic location ID and ensures your particle data is tagged with the correct location ID at all times.

SmartBracket: Flush Wall Mount

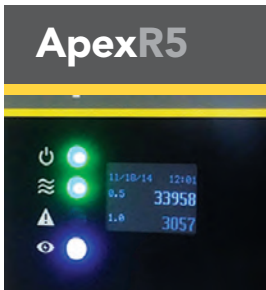Apex Remote sensors can be moved between different SmartBracket mounted locations on the network.

DataAvailability

Data Availability

View Apex Remote real-time data on any laptop, tablet or smart device web browser. Choose our optional OLED display to view data locally on the Apex Remote at the particle collection point. Run reports using our optional LMS Express, LMS Express RT or LMS Pharma application software, or connect to 3rd party software using standard Modbus Protocols.

ApexR5

Web Browser
View real time data on your laptop, tablet or smart device web browser.

OLED Display Option
The Apex Remote was designed with an optional local display for viewing real time particle count data.

Software
LMS Express
LMS Express RT
LMS Pharma
or 3rd party software using standard Modbus protocols.

LIGHTHOUSE
WORLDWIDE SOLUTIONS

22:42:15
03/02/15

Serial#: 1501100033
Model: ApexR5
Location: 00000002

D 00:00:00
S 00:00:10
H 00:00:00

DATA	STATUS	
TIME	0.5	5.0
22:42:15	846	8
22:42:14	8402	119
22:42:04	8172	89
22:41:54	8149	104
22:41:44	7495	86
22:41:34	7372	51

LIGHTHOUSE
WORLDWIDE SOLUTIONS

22:43:44
03/02/15

Serial#: 1501100033
Model: ApexR5
Location: 00000002

D 00:00:00
S 00:00:10
H 00:00:00

DATA	STATUS
LAST CAL: 01/12/15	Flow: GOOD
Laser Current: GOOD	PA Background: GOOD
Laser Power: GOOD	PA Supply: GOOD
Laser Supply: GOOD	PA Health: GOOD

EnvironmentalCompatibility

Compatible with all decontamination processes

The Apex Remote uses a 304 Stainless Steel Enclosure:

- Sealed Inlets
- Wipedownable Sloped Top
- FDA Approved Plastics
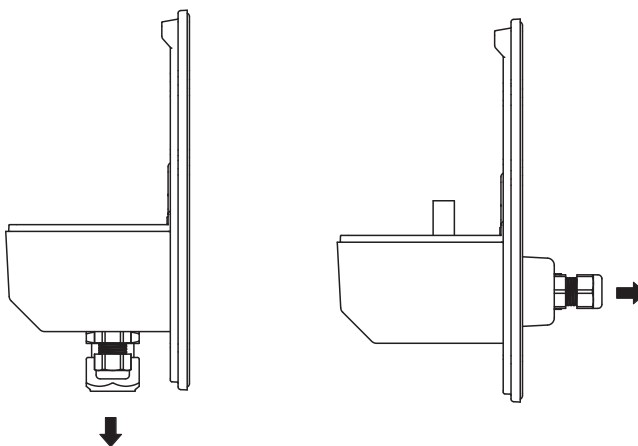- Compatible with H_2O_2 Vapor Decontamination.

Sloped front edge

The Apex Remote was designed with a sloped front edge for easy decontamination wipedown.
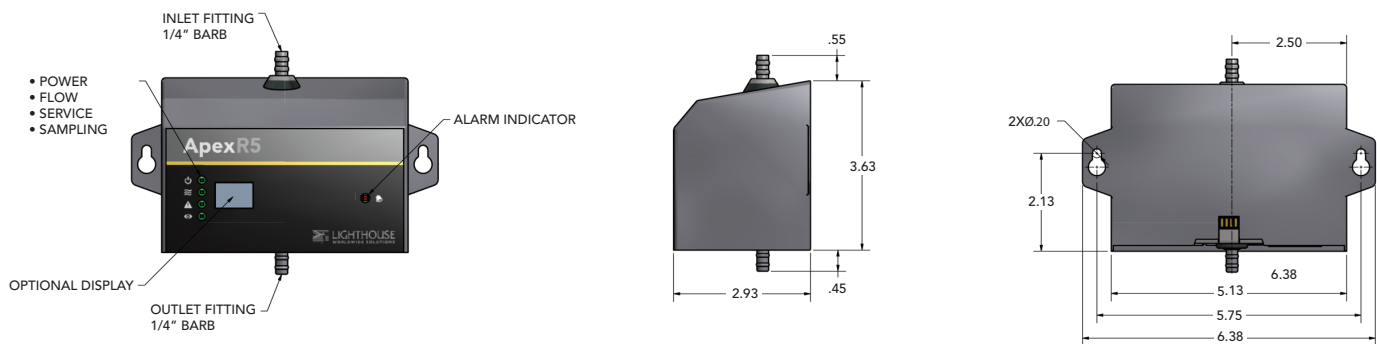
Shielded cable and tubing options

SmartBracket shielded wall mounts come with the data cable and vacuum tubing exiting out of the base or through the wall.

SmartBracket: Shielded Wall Mounts

All cable and tubing ports are sealed.

- POWER
- FLOW
- SERVICE
- SAMPLING

INLET FITTING 1/4" BARB

ALARM INDICATOR

OPTIONAL DISPLAY

OUTLET FITTING 1/4" BARB

.55

3.63

2.93   .45

2.50

2XØ.20

2.13

6.38

5.13

5.75

6.38

Apex Remote Airborne Particle Counters

Features	R3	R5	R02	R03	R05
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 CFM (28.3 LPM)	0.1 CFM (2.83 LPM)
Weight	1.6 lbs (0.73 kg)	1.4 lbs (0.63 kg)

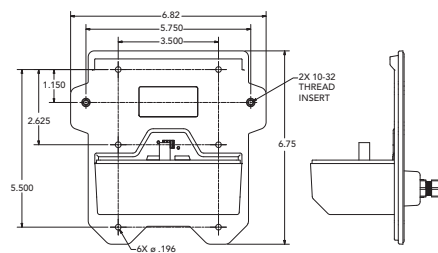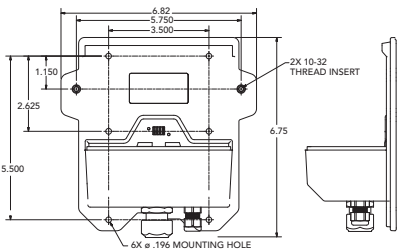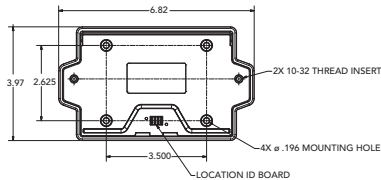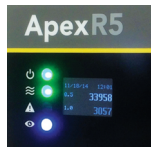|	
Communication	Ethernet or Serial
Modbus Protocol	TCP or RTU or ASCII
Data Storage Records	3,000
Self Diagnostics	Yes
Web Browser	Yes
Validation Mode	Yes
Alarm Light	Yes
Enclosure	304 Stainless Steel
Power	24 VDC, PoE
External Vacuum Requirements	Nominal 1.0 CFM 18" (45.72 cm) of Hg
Light Source	Laser Diode
Calibration	Designed for ISO 21501-4 Compliance
Zero Count Level	<1 count/5 minutes per ISO 21501-4
Concentration Limits	500,000 particles/ft3 (17,150,000/m3) @ 5% coincidence loss suitable for ISO classes 1-8 cleanrooms
Counting Efficiency	50% @ minimum channel size, 100% for particles >1.5X - 2X channel 1 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   **Smart Bracket** Wall Mount Through Base   **Smart Bracket** Wall Mount Through Wall

ApexRemote

AIRBORNE PARTICLE COUNTERS

Lighthouse Worldwide Solutions Operations

Corporate Headquarters
47300 Kato Road
Fremont, CA 94538
USA

Tel: +1 510 438 0500
Fax: +1 510 438 3840

Manufacturing Operations
1221 Disk Drive
Medford, OR 97501
USA

Tel: +1 541 770 5905
Fax:+1 541 770 2033

Benelux Operations
Van Heemstraweg 19-A
6657 KD Boven-Leeuwen
The Netherlands

Tel: +31 487 560811
Fax: +31 487 560013

EMEA Operations
Mimar Sinan Mh. Cavusbasi Cd.
Ozge Sk. Zin D Business Center
NO: 1/26
Cekmekoy/Istanbul
Turkey

Tel: +90 216 640 0 597
Fax: +90 216 640 0 598

Thailand Operations
9/13 Moo 5, Phaholyothin Rd.
T. Klongneung, A. Klongluang
Pathumthani, 12120
Thailand

Tel: +662 902 2722-3
Fax: +662 902 2724

Malaysia Operations
No. 18-32-A1 & A2
Gurney Tower, Persiaran Gurney
Georgetown, 10250 Penang
Malaysia

Tel: +604 370 1229
Fax: +604 370 1209

DISTRIBUTED BY:

laftech

Call: 1300 306 002 www.laftech.com.au

LAF Technologies Pty Ltd
Head Office: 12 Royan Place, Bayswater North, VIC 3153 Australia

ISO 9001 www.inticert.com   ECO   NATA Accredited Laboratory

MADE IN USA

www.golighthouse.com

LIGHTHOUSE
WORLDWIDE SOLUTIONS