

# ApexRemote

AIRBORNE PARTICLE COUNTER

**ApexR** embodies the key qualities of a world-class Environmental Monitoring System, raising the bar with its advanced technology and reliable performance

As a best-in-class sensor, it not only meets all relevant industry standards but also incorporates advanced risk mitigation features such as self-diagnostics and SmartBracket. These innovations work together to virtually eliminate data errors, ensuring the integrity of your measurements.

**ApexR** provides real-time continuous data collection at a cost-effective price per point, ensuring unmatched performance, accuracy, and reliability for all your environmental monitoring needs.

## Features

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



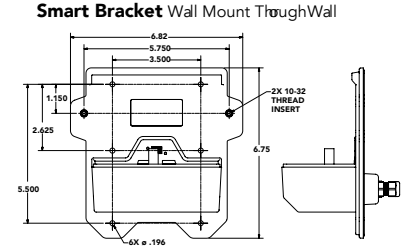
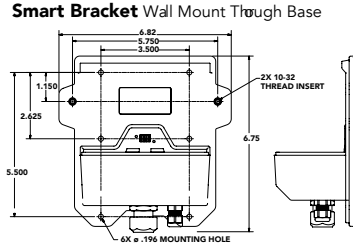
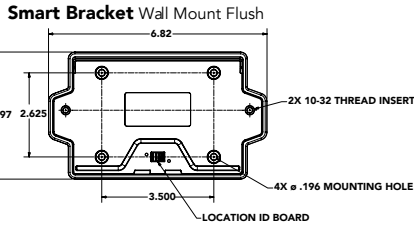
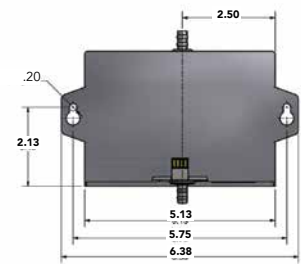
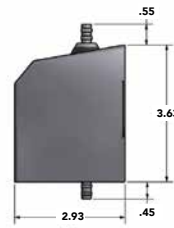
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# Apex Remote

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|                          | ApexR3  | ApexR5                          | ApexR02  | ApexR03                        | ApexR05  |
|--------------------------|---|---------------------------------|--|--------------------------------|--|
| Minimum Size Detection   | 0.3µm   | 0.5µm                           | 0.2µm  | 0.3µm                          | 0.5µm  |
| Standard 2 Channel Sizes | 0.3µm   0.5µm   | 0.5µm   5.0µm                   | 0.2µm   0.3µm  | 0.3µm   0.5µm                  | 0.5µm   5.0µm  |
| Opt 4 Channel Sizes      | 0.3µm   0.5µm<br>1.0µm   5.0µm  | 0.5µm   1.0µm<br>5.0µm   10.0µm | 0.2µm   0.3µm<br>0.5µm   1.0µm   | 0.3µm   0.5µm<br>1.0µm   5.0µm | 0.5µm   1.0µm<br>5.0µm   10.0µm                              |
| Additional Avail Sizes   | 0.7µm   3.0µm  <br>10.0µm   | 0.7µm   3.0µm  <br>7.0µm        | 0.7µm   2.0µm  | 0.7µm   3.0µm                  | 0.5µm   0.7µm   1.0µm  <br>3.0µm   5.0µm   7.0µm<br>  10.0µm |
| Flow Rate / Nozzle Size  | 1 CFM (28.3 LPM) 1/4" fittings  |                                 | 0.1 CFM (2.83 LPM), 1/8" inlet, 1/4" outlet fitting  |                                |  |
| Weight                   | 1.6 lbs (0.73 kg)   |                                 | 1.4 lbs (0.63 kg)  |                                |  |
| Concentration Limits     | 1M Particles/ft <sup>3</sup> @10% coincidence loss<br>suitable for ISO classes 1-8 cleanrooms |                                 | 4,000,000 Particles/ft <sup>3</sup> @10% (137,200,000/m <sup>3</sup> )<br>Coincidence loss suitable for ISO classes 1-8 cleanrooms |                                |  |

|                              |   |
|------------------------------|---|
| 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                    | 304 Stainless Steel   |
| Power                        | 24 VDC, PoE   |
| External Vacuum Requirements | Nominal 1.0 CFM 18" (45.72 cm) of Hg  |
| Light Source                 | Extreme Life Laser Diode  |
| Calibration                  | ISO 21501-4 Compliant and Accredited ISO 17025  |
| Zero Count Level             | <1 Count /5 minutes<br>(meets specifications of JIS B 9921 & reporting requirements of ISO 21501-4 Annex C)                 |
| Dimensions                   | 6.38" x 2.93" x 4.63"<br>(16.2 x 7.4 x 11.7 cm)   |
| Software                     | LMS Pro or LMS Xchange  |

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