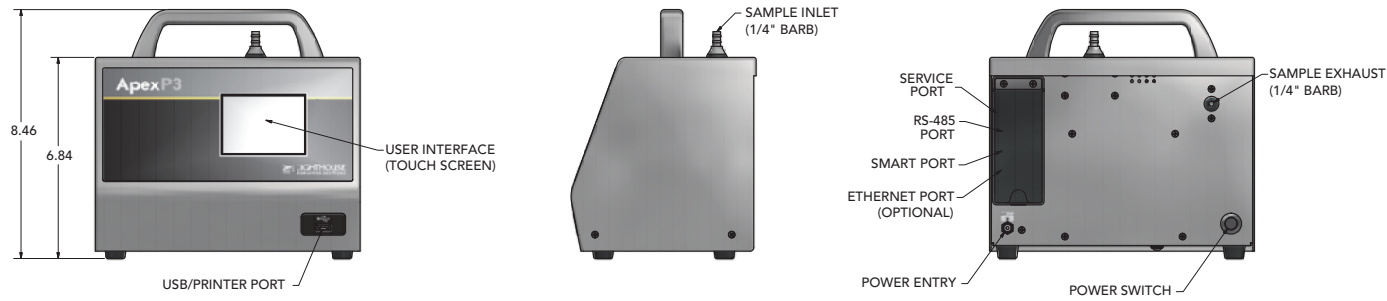




## TECHNICAL DATASHEET

### Apex Portable Airborne Particle Counters

| Features                   | P3                                                                                                   | P5                                    |
|----------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------|
| Minimum Size Detection     | 0.3 µm                                                                                               | 0.5 µm                                |
| Standard 2 channel sizes   | 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                |
| 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 |
| Flow Rate                  | 1 CFM (28.3 LPM)                                                                                     |                                       |
| Communication              | Ethernet or Serial                                                                                   |                                       |
| Modbus Protocols           | TCP or RTU or ASCII                                                                                  |                                       |
| Ports                      | Ethernet, RS485 (RJ-45), USB                                                                         |                                       |
| Touch Screen Display       | 3.5 inch color touch screen                                                                          |                                       |
| Data Storage Records       | 3,000                                                                                                |                                       |
| Location Labels            | 200                                                                                                  |                                       |
| Self Diagnostics           | Yes                                                                                                  |                                       |
| Web Browser                | Yes                                                                                                  |                                       |
| Audible Alarm              | Yes                                                                                                  |                                       |
| Reports                    | ISO 14644-1, EU GMP Annex 1, FS-209E                                                                 |                                       |
| Secure Data Transfer       | Designed to meet 21 CFR Part 11 compliance                                                           |                                       |
| Languages                  | English, Spanish, German, French, Italian, Russian, Simplified Chinese, Japanese, Korean             |                                       |
| Dimensions                 | 9.00 x 6.21 x 8.46" (22.8 x 15.8 x 21.5cm)                                                           |                                       |
| Weight                     | 10 lbs (4.5 kg)                                                                                      |                                       |
| Enclosure                  | 304 Stainless Steel                                                                                  |                                       |
| Power                      | 24 VDC                                                                                               |                                       |
| Battery                    | 4 hrs nominal, 3 hrs continuous                                                                      |                                       |
| Vacuum Source              | PID Controlled Vacuum Pump                                                                           |                                       |
| Air Sample Output          | Internally filtered to HEPA standard (>99.97% @ 0.3µm)                                               |                                       |
| Sample Count Modes         | Automatic, Manual, Beep, Concentration                                                               |                                       |
| Calibration                | Designed for ISO 21501--4 Compliance                                                                 |                                       |
| Light Source               | Laser Diode                                                                                          |                                       |
| 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 >1.5 X -- 2 X channel 1 particle size                  |                                       |
| Options                    |                                                                                                      |                                       |
| Software                   | LMS Express, LMS Express RT, LMS Pharma                                                              |                                       |
| Printer                    | USB Printer                                                                                          |                                       |



# ApexPortable

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## AIRBORNE PARTICLE COUNTERS

