ApexPortable

AIRBORNE PARTICLE COUNTERS

Apex Portable family of 1.0 CFM portable particle counters deliver buffered and real-time measurements to meet your unique application requirements. The stainless steel enclosure is easy to wipe down, static dissipative, and resistant to harsh cleaning agents.
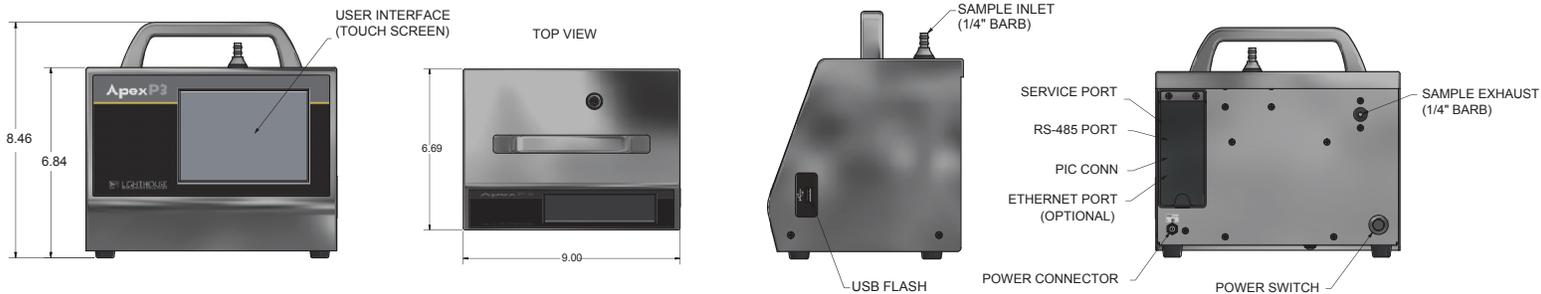
Apex Portable stores 3,000 records and 50 recipes for easy to use, error free operation. Easily transfer records to Excel, Lighthouse Monitoring Systems, Facility Monitoring Systems, Laboratory Information Management Systems, and Building Automation Systems using USB flash drive, integrated RS-485 Modbus, or Ethernet interface. Apex Portable also has a built in web server for remote data retrieval and monitoring.

As with all Apex particle counters you have the industry's most advanced self diagnostics. This intelligent sensor monitors all performance metrics to ensure accurate and consistent data every time.

FEATURES

- 0.3 - 10.0 μm
- 1.0 CFM (28.3 LPM) flow rate
- 5.7 inch (14.5 cm) color touch screen display
- 3,000 record data storage
- Self Diagnostics.
- Web server (remote access via web browser)
- 2 year warranty

LIGHTHOUSE
WORLDWIDE SOLUTIONS

USER INTERFACE (TOUCH SCREEN)

TOP VIEW

SAMPLE INLET (1/4" BARB)

SERVICE PORT
RS-485 PORT
PIC CONN
ETHERNET PORT (OPTIONAL)

SAMPLE EXHAUST (1/4" BARB)

USB FLASH

POWER CONNECTOR

POWER SWITCH

8.46
6.84
6.69
9.00

TECHNICAL DATASHEET

Apex Portable Airborne Particle Counters

Features	ApexP3	ApexP5
Minimum Size Detection	0.3 µm	0.5 µm
Standard Channel Sizes	0.3, 0.5, 1.0, 5.0 µm	0.5, 5.0 µm
Optional Channel Sizes	N/A	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 and Serial
Modbus Protocols	TCP, RTU and ASCII
Ports	Ethernet, RS485 (RJ-45), USB
Touch Screen Display	5.7 inch (14.5 cm) color touch screen
Data Storage Records	3,000 data records
Location Labels	200 Location labels
Self Diagnostics	Laser: power supply, laser current, laser power; Photo Detector: power supply, back ground voltage, detector health
Web Server	Remote access via web browser
Audible Alarm	Yes
Reports	ISO 14644-1:2015, ISO 14644-1:1999, EU GMP Annex 1, FS-209E
Secure Data Transfer	Designed for 21 CFR Part 11 compliance
Languages	English, Spanish, German, French, Italian, Russian, Simplified Chinese, Japanese, Korean
Dimensions	9.00 x 6.69 x 8.46” (22.86 x 16.99 x 21.48 cm)
Weight	10.9 lbs (4.76 kg)
Enclosure	304 stainless steel
Power	24 VDC, 5 amp max draw
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	Meets ISO 21501-4 calibration using NIST traceable PSL spheres.
Light Source	Laser diode
Zero Count Level	<1 count / 5 minutes per ISO 21501-4
Concentration Limits	1,000,000 particles/ft^3 (34,300,000/m^3) @ 10% coincidence loss suitable for ISO classes 1 - 8 cleanrooms.
Counting Efficiency	100% for particles >1.5 x first channel particle size

Included
Power supply 24 VDC, power cord, tubing, iso kinetic probe, Operating Manual on USB key, carry case

Optional
USB printer, additional tubing, cleanroom tripod, iso kinetic probe, LMS Express RT software

Distributed By:

MADE IN USA

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

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