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<https://lighthouse.nt-rt.ru> || iet@nt-rt.ru

Счетчики аэрозольных частиц Арех Р3/Р5. Технические характеристики



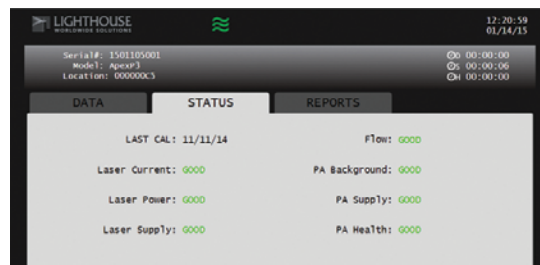
Data Integrity

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

Self-Diagnostics

The Apex Portable was designed with an 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 the instrument is operating within specified tolerances.

Web Server - View Instrument Status



Secure Data Transfer

The Apex Portable Secure Data Transfer allows all particle count data to be quickly and reliably transferred to a USB flash drive, Computer, Facility Monitoring System or Building Automation System. Apex Portable has a flexible data communication through the integrated RS-485 Modbus and USB flash drive interfaces.



DataAvailability

View ApexPortable data on the built in 5.7 inch color touch screen, USB interface, external printer, web server or communicate Modbus/TCP/IP to 3rd party software applications.

Web Server

View real time data on your laptop, tablet or smart device.



Web Server - View Particle Counts

Lighthouse WORLDWIDE SOLUTIONS					12:19:04 01/14/15
Serial#: 1501105001 Model: ApexP3 Location: 000000C5					On 00:00:00 OS 00:00:06 OH 00:00:00
DATA	STATUS		REPORTS		
TIME	0.3	0.5	0.7	1.0	
12:19:04	0	0	0	0	
12:18:08	0	0	0	0	
12:18:02	0	0	0	0	
12:17:56	0	0	0	0	

Printing

Choose our optional USB Printer to print cleanroom certification pass/fail reports.



- ISO 14644-1
- EU GMP Annex 1
- Federal Standard 209E.

Web Server - View Cleanroom Reports

LIGHTHOUSE
WORLDWIDE SOLUTIONS



Serial#: 1501105001
Model: ApexP3
Location: 000000C5

On 00:00:00
OS 00:00:06
Oh 00:00:00

DATA

STATUS

REPORTS

ISO_14644_1

EUGMP_ANNEX1

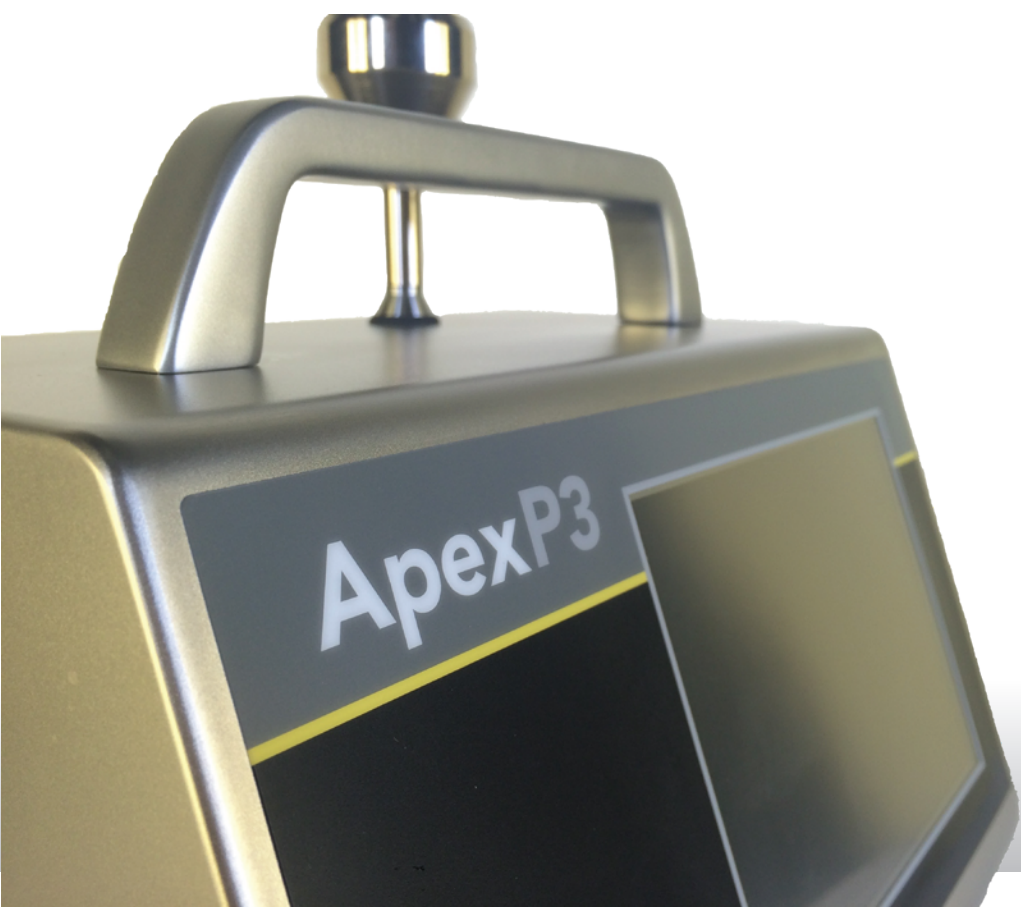
FS_209E



Environmental Compatibility

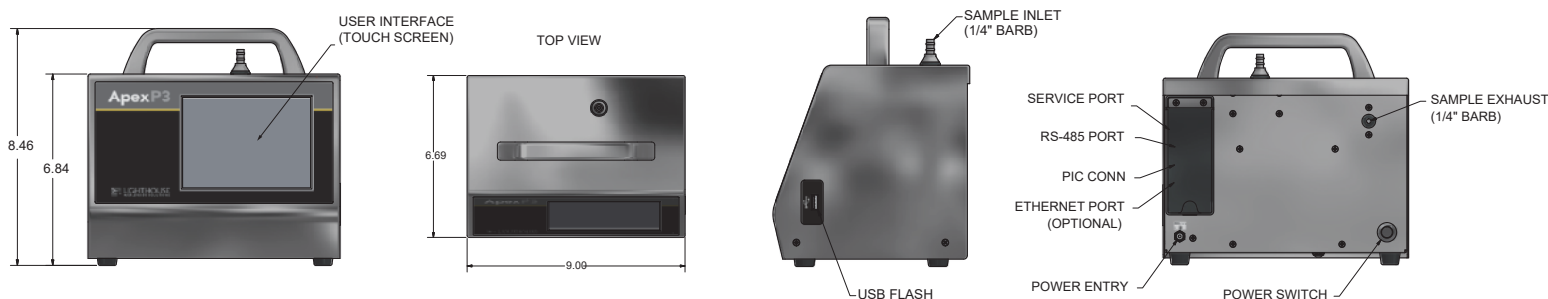
Compatible with all decontamination processes

The Apex Portable uses a 304 Stainless Steel enclosure, sealed inlets, and is compatible with H₂O₂ Vapor Decontamination.



USB port
Printing and
downloading





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	5.7 inch color touch screen	
Data Storage Records	3,000 records	
Location Labels	200 locations	
Self Diagnostics	Continuous monitoring of the Laser, Flow Rate and Particle Detector	
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 to meet 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% @ 0.3 μm)	
Sample Count Modes	Automatic, Manual, Beep, Concentration	
Calibration	Designed for ISO 21501--4 compliance, annual calibration	
Light Source	Laser diode	
Zero Count Level	<1 count/5 minutes per ISO 21501--4	
Concentration Limits	500,000 particles/ft ³ (17,150,000/m ³) @ 5% coincidence loss suitable for ISO classes 1--8 cleanrooms	
Counting Efficiency	50% @ minimum channel size 100% for particles >1.5 X - 2 X first channel particle size	
Options		
Software	LMS Express, LMS Express RT, LMS Pharma	
Printer	USB Printer	

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