

7501-30 Remote Airborne Particle Counter

0.1CFM (2.83 LPM)

- Industry's highest concentration of 15,000,000 particles/ft³ @ 10% coincidence loss
- · Ideal for use in research, industrial health and safety, indoor air quality, and cleanroom applications
- Up to 10 hours continuous operation on a fully charged battery
- Industry's first Sleep Mode and Power Conservation Mode with Intelligent Battery
- The most comprehensive internal self-diagnostics of any handheld particle counter
- Real-Time Meter detects particle contamination sources with visual and audible indication
- Internet of Things (IoT) communication allows for network or cloud-based data options



The Particles Plus[®] 7501-30 Remote Particle Counter measures 0.5 to 75.0 µm with a flow rate of 0.1 CFM (2.83 LPM). Easy to configure, this instrument displays up to 6 user-selectable size channels as well as temperature and relative humidity. View data and generate ISO 14644-1, EU GMP Annex 1 or FS 209E reports on screen or via printer, USB key, real time through its versatile output options or export to Particles Plus[®] Instrument Management Software.

Particles Plus[®] counters can be controlled and monitored remotely via web browser. The instruments' mass concentration mode approximates density in $\mu g/m^3$ and allows for density and refractive index corrections to ensure accuracy.

The 7501-30 can be used as stand-alone battery operated instruments or they can be easily integrated into a building automation and cleanroom management system via Ethernet, USB, or (optional) Wireless 802.11 b/g, RS485 or RS232.

All Particles Plus[®] counters meet ISO 21501-4 and JIS B9921. The 7501-30 ensures compliance with an on-board pulse height analyzer.

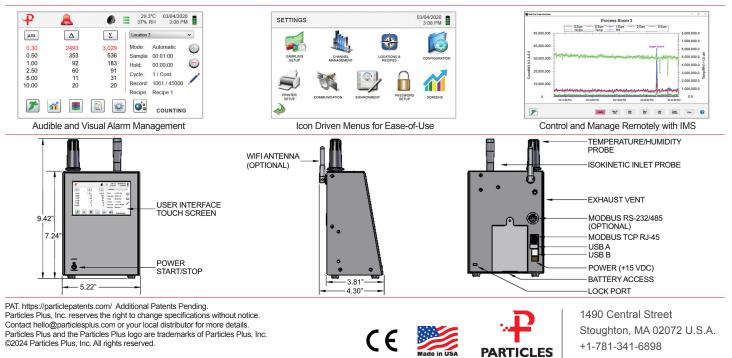
Features and Benefits

- 7501-30: Measures 0.5 μm to 75 μm
- 0.1 CFM (2.83 LPM) flow rate
- Long life laser diode technology
- Measures up to 6 channels of simultaneous data
- Approximates mas concentration in µg/m³ with density/refractive index corections
- · Large easy-to-use icon driven colour touch screen display
- · Temperature and relative humidity probe included
- Stores up to 45,000 sample records, 1,000 sample locations and 50 recipes
- · Annotation function alows user to save 32 character notations to a sample record
- · Easy configuration and transferable from instrument to instrument
- Connect using Ethernet, USB or (optional) Wireles 802.11b/g, RS485 or RS232
- Static or dynamic IP address (DHCP)
- Remote diagnostics allows for remote service investigation through the internet
- Displays user-definable reports for ISO 14644-1, EU GMP Annex 1 and FS 209E
- Internal audible alarm
- User-selectable channel sizes
- · Complies with ISO 21501-4 and JIS B9921 standards
- · Easy to clean and wipe down with minimal particle traps
- · Seamless integration into a facitilty monitoring system
- · Light weight stainles steel enclosure
- 2 year limited waranty. Extended waranties available.

Specifications

7501-30
0.5 to 75.0 μm
Factory calibrated at 0.5, 1.0, 2.5, 5.0, 10.0, 30 µm variable binning
50% @ 0.5 μm; 100% for particles >0.75 μm per JIS
15,000,000 particles/ft ³ @ 10% coincidence (per ISO 21501-4),
30,000,000 particles/ft ³ @ 10% coincidence (as tested and validated ¹)
0.1 CFM (2.83 LPM)
>10 hours
Long life laser diode
<1 count / 60 minutes (<1 particles / 6 ft ³). No fault count subtraction.
Real-Time Meter and graph, cumulative/differential count/m ³ and count/ft ³ , and mass concentration (PM)
1 to 9,999,999 counts
NIST traceable
4.3" (10.9 cm) WQVGA (480×272) color touch screen
External thermal printer available
Internal pump with automatic flow control
Internal HEPA filter
6
Calibration for custom size channels available
Adjustable built-in alarm
Removable Li-ion
4 hours within instrument (<2 hours with external battery charger)
ISO 14644-1, EU GMP Annex 1, FS 209E
50 user-configurable recipes
Ethernet and USB (Optional) Wireless 802.11 b/g, RS485 or RS232.
Includes temperature 32° to 122°F (0° to 50°C) ±1°F (0.5°C) and relative humidity probe 15-90% ±2%
Alarms on counts for all particle sizes, low battery, sensor failure, environmental sensors and flow
ISO 21501-4 and JIS B9921
Recommended minimum once per year
Stainless steel
5.22" x 3.81" x 9.42" (14.0 cm x 9.7 cm x 23.9 cm) includes barb fitings
2.6 lb (1.18 kg)
Operating manual on USB flash drive, isokinetic probe, temperature relative humidity sensor, filter, battery,
data download software, USB cable, power supply & cable
Printed manual, spare battery, external battery charger, external printer and isokinetic probes
45,000 sample records (rotating buffer) including particle count data, environmental data, locations and
times. Scrollable on screen or printout
Up to 1,000 locations 20 characters long
1 second to 99 hours
110 to 240 VAC 50/60 Hz universal in-line power supply
41° to 104°F (5° to 40°C) / 20% to 95% non-condensing
32° to 122°F (0° to 50°C) / Up to 98% non-condensing
2 year limited warranty. Extended warranties available.

1- Validated by independent analysis see paper available at www.particlesplus.com/aac2022_paper



www.particlesplus.com

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