



# MIL Hardened Portable Particle Counter

## Particle Counter ASTM D7619 & Density D7777/D4052 & Conductivity D2624



### D-2 Inc Particle Counter Advantages...



- The most mobile particle counter in existence, with a backpack carrying option.
- The rugged design can withstand extreme weather conditions and still operate effectively.
- ASTM D7619 Equivalent Accuracy to determine fuel quality.
- Military Hardened Design tested for field use.
- Calibrated to ISO 11171 Standards.
- Compliant with ATPD-2424A.
- High Resolution Color Display.
- With Built in Conductivity ASTM D2624 and Density ASTM D7777 / D4502



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## Particle Counter Spec Sheet

<b>Technical Specifications</b>	
<b>Operation</b>	
Principle of operation	Laser obscuration
Test methods	ASTM 7619
Particle size range	4 $\mu$ m(c) to 30 $\mu$ m(c)
Calibration	In accordance with ISO 11171
Test duration	2.5 Minutes
Pressure (max)	400 PSI
Sample temperature range	-30 to 50 °C
Operating temperature range	-30 to 50 °C
Sampling method	Bottle sample or online connection
Display and control system	160 color dimmable display, red/green ISO grading, dual backlit push buttons
<b>Measurement</b>	
Measuring channels	4 size channels displayed on instrument 4 $\mu$ m, 6 $\mu$ m, 14 $\mu$ m, 30 $\mu$ m
Coincidence error limit	60,000 particles/ml $\geq$ 4 $\mu$ m(c) with $\leq$ 5% co-incidence error (ISO 11171)
Sample viscosity (max)	64 mm <sup>2</sup> /s (cSt)
Sample volume	80 ml
Sample delivery	Integral Piston Pump downstream of the cell
Sample flow rate	30 ml/min test, 60 ml/min flush
<b>Data Management</b>	
Results format	Cumulative, Particles/ml, ISO 4406 cleanliness codes/classes
Memory	200 Test points
External Data Output	memory output to PC or Printer
<b>Power requirements</b>	
Voltage	12 - 36 Vdc
Battery	99Wh, 6.8 Ah Lithium ion (8 hours, 200 tests min.)
<b>Physical</b>	
Size (HxWxD) / Weight (w/ Battery)	7" X 7" X 11.8", 11.5 lbs.
Construction	Aluminum Case
Environmental	IP67, MIL-STD-810 Method 512-Immersion Procedure 1 (1 meter, 5% salt, 30 minutes)
Carry case	Padded 800d face Ultra-PE blended with high-tenacity polyester shoulder carry case
Hose connectors	1620 Minimesh



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## Included Particle Counter Items...

Part #	Product Name
JF-PC-I	ISO 11171 Laser Particle Counter (Includes 1 Ea. JF-PC-PB)
JF-PC-PB	Power Supply, NettWarrior Cable & Universal AC Volt/Frequency Power Adaptor

## Particle Counter Options...

Part #	Product Name
JF-PC-CC	JF-PC-N Padded 800d face Ultra-PE blended with high-tenacity polyester shoulder carry case
JF-PC-CT-2M	Connection Tube to Counter, Stainless Steel 2-meter hose, Minimes 1620 to Minimes 1620
JF-PC-CB	Stainless Steel 1-meter hose Minimes 1620 to Standpipe
JF-PC-DS	Battery Upgrade Option Component 1 of 3: Docking Station for Battery Connection to Particle Counter
JF-PC-BT	Battery Upgrade Option Component 2 of 3: Li-Ion Battery, 99Wh
JF-PC-BC	Battery Upgrade Option Component 3 of 3: Battery Charger w/Universal Wall Adaptor
JF-PC-PB	Power Supply, NettWarrior Cable & Universal AC Volt/Frequency Power Adaptor
JF-PC-PS	Partisan 2806 Verification Fluid
JF-PC-CA	JF-PC-N Factory Calibration Service to ISO 11171
JF-PC-CO	JF-PC-N Optional Add-On - Internal ASTM D2624 Conductivity Sensor
JF-PC-DE	JF-PC-N Optional Add-On - Internal ASTM D7777/D4052 Density Sensor API Gravity @ 60°F
JF-PC-CC2	JF-PC-N Rugged SKB Carrying Case with Wheels and Handle
JF-PC-PR	Printer Upgrade Option Component 1 of 3: Thermal Printer Configured Epson M50 Printer
JF-PC-PC	Printer Upgrade Option Component 2 of 3: Thermal Printer Data Cable
JF-PC-PP	Printer Upgrade Option Component 3 of 3: Thermal Printer Paper Roll



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## Particle Counter Battery...



3902-BT-70909AV Battery	
Type	Lithium-Ion (Carbon/Lithiated Metal Oxide)
Voltage	14.4V Nominal; 16.8V Maximum
Dimension	7.1 X 3.0 X 0.9 in
Weight	1.05 lbs.
Energy Rating	99 Wh
Capacity	6.8 Ah

The Particle Counter Battery is a high-capacity 99Wh, 6.8 Ah Lithium-ion battery. When fully charged, it enables the particle counter to operate continuously for up to 8 hours. With this capacity, it supports a minimum of 200 tests before requiring recharging. Meets IATA guidelines for Air Transport.



### Proudly Made in America

All D-2 Inc. Products are made right here in the USA. We offer direct support for our products.