

983 Particle Counter



Fluke 983

Easy to use tool for troubleshooting and maintaining indoor air quality

The Fluke 983 Particle Counter simultaneously measures and displays six channels of particle size distribution, temperature and humidity. This compact, lightweight, self-contained tool allows for one-handed operation. As the Fluke 983 doesn't require level holding, it can make accurate measurements in any position. The 8 hour rechargeable battery together with a large 5000 sample record allows for complete air quality surveys in one go. The Fluke 983 is the ideal tool for determining size distribution of airborne particles or tracking down a particle source.

- Simultaneously measure and display 6 channels of particle sizes, temperature and humidity
- Measure particle size down to 0.3 μm
- Selectable sample time, count data, programmable delay
- Store 5000 records of date, time, counts, relative humidity, temperature, sample volumes, alarms and location label
- Upload stored data to a PC with included software
- Compact, self-contained package allows for one-handed operation
- Intuitive, easy-to-use user interface
- Always ready to run, with no fluids to refill
- Backlit LCD for use in any lighting condition
- 8 hour rechargeable NiMH battery
- Protective holster

Specifications

6 size channels	0.3, 0.5, 1.0, 2.0, 5.0, 10.0 μm
Flow rate	0.1 cfm (2.83 L/min) controlled by internal pump
Count modes	Concentration, totalize, audio
Counting efficiency	50 % @ 0.3 μm ; 100 % for particles > 0.45 μm (per JIS B9921:1997)
Zero count	1 count/5 minute (per JIS B9921:1997)
Coincidence loss	5 % at 56,000 particles per m^3
Relative humidity	$\pm 7\%$, 20 % to 90 %, non-condensing
Temperature	$\pm 3\text{ }^\circ\text{C}$, 10 $^\circ\text{C}$ to 40 $^\circ\text{C}$
Data storage	5000 sample records (rotating buffer) of date, time, counts, relative humidity, temperature, sample volumes, alarms, label
Alarms	Counts, low battery, sensor fail
Delay time	0 to 24 hours
Sample inlet	Isokinetic probe
Interface	RS-232 and RS-485 via RJ-45
Calibration	PSL particles in air (NIST traceable)

Included Accessories

Certificate of Calibration (NIST)
 Isokinetic probe
 Zero count filter
 Windows-compatible software download utility
 DB9 to RS-232 adapter and cable
 High purity tubing
 1/8 in. hose barb adapter
 Power supply
 Operation manual
 Hard molded carrying case

Operating temperature: 10 $^\circ\text{C}$ to 40 $^\circ\text{C}$, 20 % to 90 % relative humidity, non-condensing
Storage temperature: -10 $^\circ\text{C}$ to 50 $^\circ\text{C}$, up to 90 % relative humidity, non-condensing
Power: AC adapter, 90 to 250 V AC, 50 to 60 Hz
Battery life/recharge time: 8 hours/2 hours

Rechargeable battery: NiMH, 4.8V at 4.5 Ah; replaceable
Size (HxWxD): 209 mm x 114 mm x 57 mm
Weight: 1 kg
Warranty: 1 year

Ordering Information

Fluke 983 Particle Counter



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