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Fluke 983 Particle Counter

Specifications

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 (JIS B9921:1997)
Coincidence Loss	5% at 2,000,000 particles per ft ³
Relative Humidity	± 7%, 20% to 90% non-condensing
Temperature	± 3 °C, 10 °C to 40 °C (50 °F to 104 °F)
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

Environmental Specifications

Operating:	10 °C to 40 °C (50 °F to 104 °F), 20% to 90% relative humidity, non-condensing
Storage:	-10 °C to 50 °C (14 °F to 122 °F), up to 90% relative humidity, non-condensing

Mechanical & General Specifications

Size	11.43 cm x 20.96 cm x 5.72 cm (4.5 in x 8.25 in x 2.25 in) Dimensions (W x L x D)
Weight	1.0 kg (2.2 lbs)
Power	AC adapter, 12 V DC at 2.5A, 90 to 250 V AC, 50 to 60 Hz
Rechargeable Battery	NiMH, 4.8 V at 4.5 Ah; replaceable
Battery Life	8 hours
Recharge Time	2 hours
Calibration	PSL particles in air (NIST traceable)

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