

Troubleshoot and maintain indoor air quality with the new Fluke 983 Particle Counter

Technical Data

The particle counter is an essential tool in the HVAC/IAQ professional's toolbox. From filter testing to basic IAQ investigations, the particle counter equips the user with valuable data concerning the concentration and source of particulates in the tested environment.

Airborne particles can settle onto sensitive surfaces or carry allergens and bacteria into

the environment, resulting in product and productivity losses if left unchecked. The Fluke 983 is a first response tool that is lightweight and easy to use in any position. The rugged holster contains an integrated strap for one-handed operation, reducing the fatigue found in using less portable units. The significant data logging capacity and long battery life mean more uninterrupted time on the job.



Fluke 983 Particle Counter

- Selectable sample time, count data, programmable delay
- Set sample size to cubic feet or liters, set temperature measurements to °C or °F
- Data displayed in totalize or concentration modes
- Logged samples include date, time, particle counts, sample volume, temperature and relative humidity.

General Features

- Compact and lightweight (1.0 kg/2.2 lbs)
- Graphic liquid crystal display with backlight
- AC adapter, 12 V dc at 2.5 A, 90 to 250 V ac, 50 to 60 Hz
- Rechargeable battery (NiMH, 4.8 V at 4.5 Ah)
- Simple user interface
- Operating: 10 °C to 40 °C (50 °F to 104 °F), 20 % to 90 % relative humidity, non-condensing
- Meets JIS B9921:1997 and CE standards
- Included:
 - Certificate of Calibration (NIST)
 - Windows-compatible software download utility
 - DB9 to RS-232 adapter and cable
 - Isokinetic probe
 - Zero count filter
 - High purity tubing
 - 1/8 in. hose barb adapter
 - Power supply
 - Operation manual
 - Hard molded plastic case

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

Ordering Information

Fluke-983 Particle Counter

Available Accessories

Fluke-983TPK 220

Thermal Printer Kit, 220 V

Fluke-983TPK 120

Thermal Printer Kit, 120 V

Fluke 983 Thermal Printer Kit includes:

Thermal printer, (2) rolls paper, battery pack, power adapter, serial adapter



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