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Fluke 985
Particle Counter

Technical Data

Troubleshooting indoor air quality made easy

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

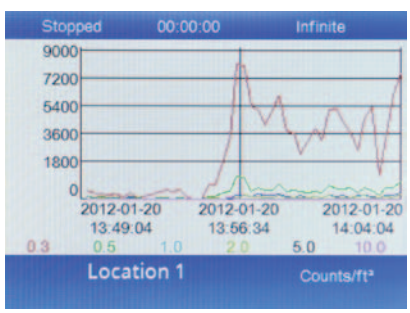
The new Fluke 985 Particle Counter is ideal for troubleshooting and monitoring indoor air quality issues and verifying HVAC filter performance and critical locations for ISO Class 5–9 certification.

With the ultra-light weight ergonomic design, easy to view color screen with intuitive icons, on-screen trend graphs for easy and quick analysis, the Fluke 985 is a must for any maintenance, HVAC and IAQ professional.



Fluke 985 Particle Counter features:

- Six channels and a particle size range of 0.3 µm to 10 µm
- Ultra-lightweight and ergonomic design for easy single-hand operation
- Ten hours of standard-use battery life to last a full work day
- Large 3.5 inch QVGC color display with backlight, intuitive icons, and large font options make for easy navigation and viewing
- 10,000 records stored in device for easy access to historical data
- Data can be viewed in traditional tabular or trend graph at the user's preference
- Configurable display, sample methods, and alarm setting for sample size count (raw count, per cubic feet, cubic meter, or liter)
- Data export to USB memory stick or direct connection to PC via USB cable. No special software required to view Excel compatible files
- Ethernet enabled for accessing data via internet browser (Windows Explorer, Safari, and Firefox)
- USB/Ethernet charge cradle ensures the unit always ready for use
- Administrator password control (optional) for added security
- Meets ISO 21501, JIS B9921, and CE standards



Profile of 0.3 to 10 µm particles captured over 15 minutes window.

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Specifications

Six size channels	0.3 µm, 0.5 µm, 1.0 µm, 2.0 µm, 5.0 µm, 10.0 µm
Flow rate	0.1 cfm (2.83 L/min)
Light source	775 nm to 795 nm, 90mW class 3B laser
Count modes	Raw counts, #/m^3, #/ft^3, #/liter in Cumulative or Differential mode
Counting efficiency	50 % @ 0.3 µm; 100 % for particles > 0.45 µm (per ISO 21501)
Zero count	1 count/5 minute (JIS B9921)
Concentration limits	10 % at 4,000,000 particles per ft^3 (per ISO 21501)
Data storage	10,000 records (rotating buffer)
Alarms	User selected particle channels and limits
Display	QVGA color with backlight
Delay time	0 to 24 hours
Sample inlet	Isokinetic probe
Security	Administrator password controlled (optional)
Communication mode	USB or Ethernet
Dimensions (L x W x D)	27.2 cm x 9.9 cm x 5.3 cm (10.7 in x 3.9 in x 2.1 in)
Weight	0.68 kg (1.5 lb)
Power adapter	100 V ac to 240 V ac, 12 V dc, 2.5 A
Rechargeable battery	Li-ion 7.4 V 2600 mAh
Battery duration/charge time	10 hours typical use (5 hours continuous sampling)/3.5 hours
Calibration	PSL particles in air (NIST traceable)
Operating environment	50 °F to 104 °F (10 °C to 40 °C)/< 95 % non-condensing relative humidity
Storage environment	14 °F to 122 °F (-10 °C to 50 °C)/Up to 98 % non-condensing relative humidity
Warranty	One-year
Accessories included	Cradle for charging and convenient USB and Ethernet communications, Ethernet cable, USB cable, 12 V dc power supply, zero count inlet-filter, filter adapter, sample inlet protective cap, hard case, getting started manual and users manual CD

Other IAQ tools from Fluke



CO-205 Aspirator Kit for flue gas sampling using Fluke family of gas measuring devices.

CO-220 Carbon Monoxide Meter measures CO levels in industrial environments, commercial or residential buildings where accumulation of combustion gas is possible.

Fluke 922 Airflow Meter makes airflow measurements easy by combining differential pressure, airflow, and velocity into a single, rugged meter.

Fluke 971 Temperature Humidity Meter takes accurate humidity and temperature readings in the air for maintaining optimal comfort levels and good indoor air quality for facility maintenance and utility technicians, and HVAC-service contractors.

Fluke 975 AirMeter™ combines 5 powerful air quality tools into one for measuring essential IAQ parameters: temperature, humidity, dew point and wet bulb temperature, air volume, air velocity, CO, CO2, and % of outdoor air calculation.

Ordering information

Fluke-985	Airborne Particle Counter
Fluke-CO-205	Aspirator Kit
Fluke-CO-220	Carbon Monoxide Meter
Fluke-922	Airflow Meter
Fluke-971	Temperature Humidity Meter
Fluke-975	AirMeter™

Fluke. *Keeping your world up and running.®*

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Printed in U.S.A. 3/2012 4148253A D-EN-N

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