



Met One Instruments, Inc.

AEROCET 831 Handheld Particle Counter

The Aerocet 831 is a completely portable, full– featured, battery operated, hand-held mass monitor. A mass monitor that simultaneously provides five important mass ranges (PM₁, PM_{2.5}, PM₄, PM₁₀ & TSP) in one minute from start up.

Key Features:

Five Mass Ranges (PM1, PM2.5, PM4, PM10 and TSP)

A mass monitor that simultaneously provides five important mass ranges in one minute.

Handheld Operation

Survey the environment with this extremely portable, size selective mass monitor. This small lightweight instrument is only 28 ounces and is the perfect survey tool for a wide range of applications.

Simple Operation

Only two front-panel buttons accompany the multi function rotary scroll wheel to provide simple and efficient operation. Just press and rotate to scroll through the menu driven platform.

Sample History

View sample history easily on the display or export data via the USB port using the included software. Unit stores up to 2500 sample events. USB interface provides quick data download and field firmware upgrades.

Battery Powered

24 hours of typical intermittent operation and up to 8 hours of continuous use. Recharge time is only 2.5 hours. The included AC charger / adapter operates the counter even when the batetry pack is discharged.



Applications

- HVAC Applications
- Industrial/Occupational Hygiene
- Indoor Air Quality

*Note: Not recommended for continuous outdoor use. Avoid sampling in rainy or foggy conditions.





Specifications

Features

AEROCET 831 Handheld Particle Counter

Sample Duration Sample Modes Data Storage Display Controls	1 Minute Manual and Continuous 2,500 Records 2-line by 16 character LCD 2 button keypad with rotary dial
Performance PM Ranges Concentration Range Resolution Sensitivity Accuracy Flow rate	PM ₁ , PM _{2.5} , PM ₄ , PM ₁₀ , TSP 0 – 1,000 μ g/m3 0.1 μ g/m ³ (display / serial output) High = 0.3 μ m, Low = 0.5 μ m ± 10% to calibration aerosol 0.1 CFM (2.83 lpm)
Electrical Light Source AC Adapter/Charger Battery Type Battery Operating Time Battery Recharge Time Communication	Laser Diode, 780 nm, 40 mW typical AC to DC module, 100 – 240 VAC to 8.4 VDC Li-ion rechargeable Battery 8 hours continuous operation. Up to 24 hours intermittent operation. 2.5 hours typical USB Mini B Type
Physical Weight	1.74 lbs – 28 ounces – (0.79 kg)

Height: 6.25" (15.9 cm) Width: 3.63" (9.22 cm)

Specifications are subject to change at any time.

Thickness: 2.00" (5.08 cm)

0° to +50°C -20° to +60°C

Size

Environmental

Operation Temperature Storage Temperature

SUPPLIED ACCESSORIES

Battery Charger / Adapter USB Cable **Operation Manual Calibration Certificate** Comet software

OPTIONAL ACCESSORIES

Carrying Case Protective Boot Zero Filter Kit Flow Meter Kit





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