





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, PM_{2.5}, 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

Specifications

AEROCET 831 Handheld Particle Counter

Features

Sample Duration 1 Minute

Sample Modes Manual and Continuous

Data Storage 2,500 Records

Display 2-line by 16 character LCD Controls 2 button keypad with rotary dial

Performance

PM Ranges PM₁, PM_{2.5}, PM₄, PM₁₀, TSP

Concentration Range $0-1,000 \mu g/m3$

Resolution $0.1 \mu g/m^3$ (display / serial output) Sensitivity $High = 0.3 \mu m$, Low = $0.5 \mu m$ Accuracy $\pm 10\%$ to calibration aerosol

Flow rate 0.1 CFM (2.83 lpm)

Electrical

Light Source Laser Diode, 780 nm, 40 mW typical AC Adapter/Charger AC to DC module, 100 – 240 VAC to 8.4 VDC

Battery Type Li-ion rechargeable Battery

Battery Operating Time 8 hours continuous operation. Up to 24 hours intermittent operation.

Battery Recharge Time 2.5 hours typical Communication USB Mini B Type

Physical

Weight 1.74 lbs - 28 ounces - (0.79 kg)

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

Thickness: 2.00" (5.08 cm)

Environmental

Operation Temperature 0° to $+50^{\circ}$ C Storage Temperature -20° to $+60^{\circ}$ C

Specifications are subject to change at any time.

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





