



Phone: 541-471-7111

Indoor Air Monitoring

Aerocet 831 Handheld Particle Counter

The Aerocet 531S is a full-featured, battery operated, handheld mass monitor or particle counter and completely portable unit. A mass monitor that simultaneously provides five important mass ranges (PM1, PM2.5, PM4, PM10 and TSP) in one minute. 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.

Operation

The Aerocet 831 is simple to operate with two front-panel buttons that accompany the multifunction rotary scroll wheel to provide simple and efficient operation. Just press and rotate to scroll thru the menu driven platform. With the Aerocet 831 you can 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. The Aerocet 831 has 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 batter pack is discharged.

Features

- Four Mass Ranges (PM1, PM2.5, PM4, PM10)
- Handheld Operation
- Sample History
- Low Cost w/ Data Logging
- Battery Powered

Applications

- Industrial/occupational hygiene
- Point source location monitoring
- Indoor/Outdoor Air Quality
- Process Control
- HVAC Applications
- Filter Testing
- Mining & Ore Processing
- Remote Sampling

Specifications

Operating Principle

Particle count to mass conversion.

Performance

| | |
|----------------------|--|
| PM Range: | PM1, PM2.5, PM4 and PM10 |
| Concentration Range: | 0 – 1,000 µg/m ³ |
| Resolution: | 0.1µg/m ³ (display / serial output) |
| Sensitivity: | High = 0.3 µm, Low = 0.5 µm |
| Accuracy: | ± 10% to calibration aerosol |
| Flow Rate: | 0.1 cfm (2.83 lpm) |
| Sample Duration: | 1 minute |
| Data storage: | 2,500 records |

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 24 hour intermittent operation |
| Battery Recharge Time: | 2.5 hours typical |
| Communications: | USB Mini B Type |



Certifications: Meets or exceeds CE, ISO, ASTM, and JIS international certifications

Interface

Display: 2-line by 16-character LCD

Controls: 2 button keypad with rotary dial

Data Memory: 2,500 records

Power Supply / Charger: Yes

Software: Yes

Physical

Size: Height: 6.25" (15.9 cm)
Width: 3.63" (9.22 cm)
Thickness: 2.0" (5.08 cm)

Weight: 1.74 lb (28 oz) (0.79 kg)

Environmental

Operating Temperature: 0 °C to +50 °C

Storage Temperature: -20 °C to +60 °C

Accessories

Supplied: Operation Manual
Battery Charger / Adapter
USB Cable
Comet Software

Optional: Carrying Case (PN 8517)
Protective Boot (PN 80450)
Zero Filter Kit (PN 80846)
Flow Meter Kit (PN 80530)

Specifications are subject to change at any time



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