# PM103

### Indoor Air Monitoring Aerocet 831 Handheld Particle Counter

The Aerocet 831 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) 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

#### **Operating Principle**

Particle count to mass conversion.



## **PM103**

Performance

### Met One Instruments, Inc.

#### **Specifications**

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		interface	
PM Range:	PM1, PM2.5, PM4 and PM10	Display:	2-line by 16-character LCD
Concentration Range:	0 – 1,000 µg/m3	Controls:	2 button keypad with rotary dial
Resolution:	0.1µg/m3 (display / serial	Data Memory:	2,500 records
	output)	Power Supply / Charger:	Yes
Sensitivity:	High = 0.3 μm, Low = 0.5 μm	Software:	Yes
Accuracy:	± 10% to calibration aerosol	Physical	
Flow Rate:	0.1 cfm (2.83 lpm)	Size:	Height: 6.25″ (15.9 cm) Width: 3.63″ (9.22 cm) Thickness: 2.0″ (5.08 cm)
Sample Duration:	1 minute		
Data storage:	2,500 records	Weight:	1.74 lb (28 oz) (0.79 kg)
Electrical		Environmental	
Light Source:	Laser Diode, 780 nm, 40 mW typical	Operating Temperature:	0°C to +50°C
AC Adapter/Charger:	AC to DC module, 100 – 240 VAC to 8.4 VDC	Storage Temperature:	-20°C to +60°C
Battery Type:	Li-ion rechargeable	Accessories	
2000) 1990	Battery	Supplied:	Operation Manual Battery Charger / Adapter
Battery Operating Time:	8 hours continuous operation 24 hour intermittent		USB Cable Comet Software
	operation	Optional:	Carrying Case (PN 8517) Protective Boot (PN
Battery Recharge Time:	2.5 hours typical		80450) Zero Filter Kit (PN 80846)
Communications:	USB Mini B Type		Flow Meter Kit (PN 80530)
Certifications:	Meets or exceeds CE, ISO, ASTM, and JIS international certification		

Specifications are subject to change at any time

Distribuito da: Zetalab s.r.l.

Via Umberto Giordano, 5 - 35132 Padova Tel 049 2021144 - Fax 049 2021143 **Tel 049** 2021144 - Fax 049 2021143 www.zetalab.it - email: info@zetalab.it

