# 831 Aerosol Mass Monitor

Met One Instruments, Inc.

Small - Reliable - Affordable

#### Four Mass Ranges (PM1, PM2.5, PM4, PM10)

A mass monitor that simultaneously provides data of four 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 multifunction rotary scroll wheel to provide simple and efficient operation. Just press and rotate to scroll thru 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 batter pack is discharged.



Figure 1 – Model 831 pictured with optional protective boot

### **Applications**

Industrial/occupational hygiene
Point source location monitoring
Indoor/Outdoor Air Quality
Process Control

HVAC Applications
Filter Testing
Mining & Ore Processing
Remote Sampling

Whatever your particular needs,
The right choice is only natural.

Operating Principle Particle count to mass conversion

**Features** 

Sample Duration 1 minute
Data storage 2,500 records

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

**Performance** 

PM Ranges PM1, PM2.5, PM4 and PM10

Concentration Range 0 – 1,000 μg/m<sup>3</sup>

Resolution 0.1µg/m³ (display / serial output)

Sensitivity 0.5µm

Accuracy ± 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

24 hour intermittent operation

Battery Recharge Time 2.5 hours typical Communication USB Mini B Type

**Physical** 

Weight

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

Thickness: 2.00" (5.08 cm) 1.74 lbs – 28 ounces – (0.79 kg)

**Environmental** 

Operating Temperature 0° C to +50° C Storage Temperature -20° C to +60° C

**Accessories** 

Supplied Battery charger / adapter

USB Cable
Operation manual
Comet software

Optional Carrying Case (P/N 8517)

Protective Boot (P/N 80450) Zero Filter Kit (P/N 80846) Flow Meter Kit (P/N 80530)



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