831 Aerosol Mass Monitor



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.

Specifications

Operating Principle

Features

Sample Duration Data storage Display Controls

Performance

PM Ranges Concentration Range Resolution Sensitivity Accuracy Flow rate

Electrical

Light Source AC Adapter/Charger Battery Type Battery Operating Time

Battery Recharge Time Communication

Physical

Size

Weight

Environmental

Operating Temperature Storage Temperature

Accessories

Supplied

Optional

Particle count to mass conversion

1 minute 2,500 records 2-line by 16-character LCD 2 button keypad with rotary dial

PM1, PM2.5, PM4 and PM10 $0 - 1,000 \mu g/m^3$ $0.1\mu g/m^3$ (display / serial output) $0.5\mu m$ $\pm 10\%$ to calibration aerosol 0.1 CFM (2.83 lpm)

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 24 hour intermittent operation 2.5 hours typical USB Mini B Type

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)

0° C to +50° C -20° C to +60° C

Battery charger / adapter USB Cable Operation manual Comet software

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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