

# FIELD Environmental Instruments

Equipment Rental and Field Supplies

**MIE**

**MiniRam PDM-3  
Aerosol Monitor**

*"Your Needs Are Our Business"*

Toll-Free  
**800-393-4009**



The MINIRAM (Miniature Real-Time Aerosol Monitor) Model PDM-3 is an ultra-compact personal size airborne particulate monitor. The MINIRAM can be used to measure the concentration of all forms of aerosol: dusts, fumes, smokes, fogs, etc. Its small size and weight, and concentration-averaging features permits its use as a personal exposure monitor.

Alternatively it can be used as an area monitor for both indoor and ambient air situations. Test chamber monitoring, visibility measurements, cloud detection, aerosol dispersion studies, etc. are additional applications of the MINIRAM.

## SPECIFICATIONS

**Measurement Ranges:**

**Precision and Stability (for 10 sec.) readings:**

**Precision and Stability**

**for time-averaged measurements:**

**Temperature Coefficient:**

**Readout Solution:**

**Total Measurement Period:**

**Particle size range of max response:**

**Data Storage:**

**Real-Time Outputs:**

**Power Source:**

**Charge Time:**

**Nominal Battery Voltage:**

**Average Battery Voltage:**

**Operating Time w/ full battery charge:**

**Intrinsic Safety:**

0.01 to 10 mg/m<sup>3</sup> and 0.1 to 100 mg/m<sup>3</sup>

+/- 0.03 mg/m<sup>3</sup>

+/- 0.02 mg/m<sup>3</sup> (for 1 min. averaging)

+/-0.006 mg/m<sup>3</sup>

(for 10 min averaging)

+/- 0.003 mg/m<sup>3</sup> (for 1 hr averaging)

+/- 0.001 mg/m<sup>3</sup> (for 8 hr averaging)

0.005 mg/m<sup>3</sup> per C (typical)

0.02 mg/m<sup>3</sup> or 0.1 mg/m<sup>3</sup> depending on automatically selected range (3 digit LCD)

8 1/3 hr, or indefinite 8 1/3 cycles

0.1 or 10 mm in diameter

7 concentration averages, sampling periods in min (3 significant figure resolution), off time (10 minute resolution) identification number, zero value, programmable code and check sum

Analog (0 to 1.5V full scale) and digital ASCII

Rechargeable ni-cad batteries

12 hrs per charge

7.5 V

40 mA

10 hrs

MSHA approval 2G-3532-0

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