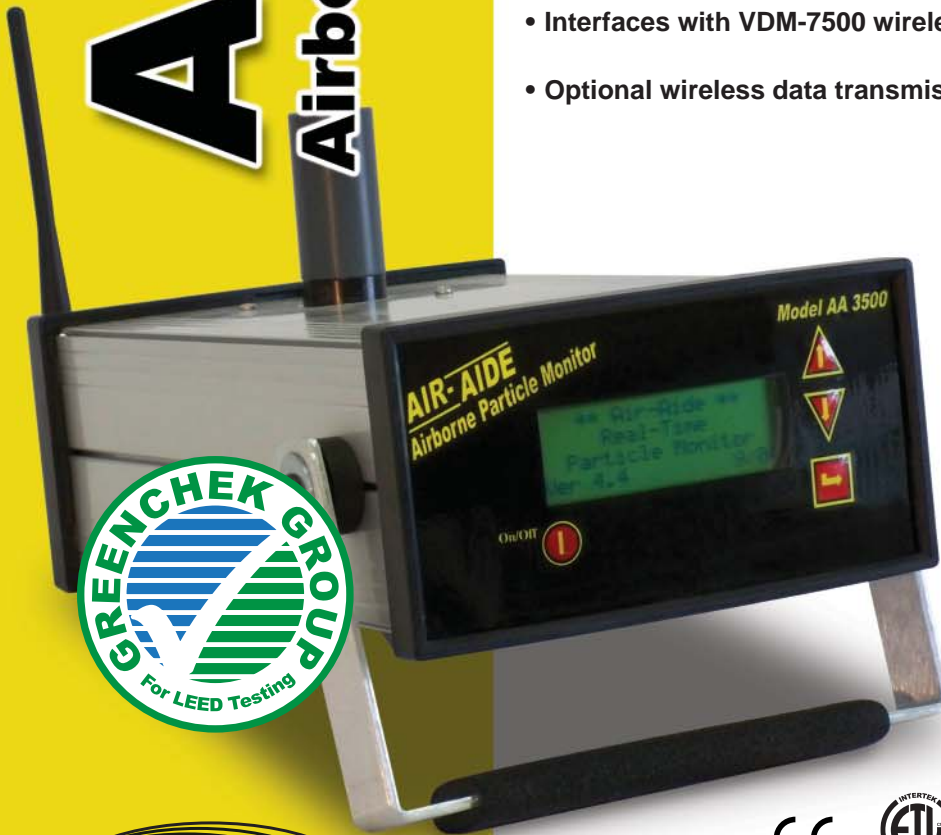


# AIR-AIDE

## Airborne Particulate Monitor

### Portable Direct-reading Survey Tool

- High resolution and temperature stability
- Long-life air sample pump maintains accurate flow for particle separation
- Interchangeable size-selective impactors — choose PM10, PM2.5, PM1.0, or respirable
- Selection of built-in calibration factors for fine and coarse particulate matter
- 10-hour rechargeable NiMH battery
  - Extended runs from AC power with supplied charger/adaptor
- Large data storage capacity
  - Run continuously for 15 months without downloading
- On-screen programming of sampling and data storage parameters
- PC-based software included for downloading and graphing stored data
- User-defined audible alarm
- Location codes for tagging data
- Displays concentration in mg/m<sup>3</sup>, TWA, STEL, Max, Min, date, and time
- Interfaces with VDM-7500 wireless video dust monitoring system
- Optional wireless data transmission to PC



The portable AIR-AIDE™ Airborne Particulate Monitor is a fixed-point monitor for measuring lung damaging dust levels. AIR-AIDE is ideal for indoor air quality investigations and as a tool for compliance. With the 10-hour NiMH battery, AIR-AIDE can sample for a full day. For extended monitoring, run AIR-AIDE from AC power using the supplied charger/adaptor. Results are displayed immediately or can be stored in memory. At the end of monitoring, download data to a PC. Supplied DustComm Pro Software allows for graphical and statistical representation of the total dust generating process.



## AIR-AIDE Airborne Particulate Monitor

Portable Direct-reading Survey Tool

### AIR-AIDE Applications

AIR-AIDE can be used for both indoor and ambient monitoring. It is an excellent assistant tool for OSHA/EPA/ASHRAE compliance methods.

- Exposure monitoring of dusts and aerosols including:
  - Lead
  - Welding fumes
  - Silica
  - Coal dust
  - Wood/paper
  - Concrete/cement
  - Cadmium
  - Nuisance dusts
  - Chromate
- Pre-determination of air quality for ventilation system design
- Survey of workplace for compliance and related health reasons
- Monitoring indoor air quality in factories, offices, or homes for respirable particulates
- Indoor air quality investigations for "Green Buildings"

### Performance Profile

**Accuracy:**  $\pm 10\%$  to filter gravimetric SAE fine test dust  
**Resolution:** 0.001 mg/m<sup>3</sup>  
**Calibration:** NIOSH gravimetric method, NIST traceable, SAE fine test dust  
**Sensing Range:** 0.001 to 20.0 mg/m<sup>3</sup> or 0.01 to 200 mg/m<sup>3</sup> (optional)  
**Particulate Size Range:** 0.1 to 100  $\mu\text{m}$   
**Particle Size Measurement:** 1  $\mu\text{m}$ , 2.5  $\mu\text{m}$ , 4.0  $\mu\text{m}$ , or 10  $\mu\text{m}$   
**Precision:**  $\pm 0.003$  mg/m<sup>3</sup> (3 mg/m<sup>3</sup>)  
**Sampling Flow Rate:** 2 L/min  
**Display:** Alphanumeric LCD, 4 lines, 20 characters, mg/m<sup>3</sup> concentration reading  
**Operation:** Four-key splash-proof membrane switch  
**Analog Output:** 0 to 2 VDC  
**Alarm Output:** 90 dB at 3 ft  
**Record Time:** 1 second to 15 months  
**Sampling Rate:** *Short-term:* 2, 4, and 10 seconds  
*Long-term:* 1, 10, and 30 minutes  
**Memory and Time Storage:** > 5 years  
**Real-time Clock and Display:** hours, minutes, seconds, day, month, year  
**Data Storage:** 21,600 data points  
**Data Display:** Concentration in mg/m<sup>3</sup> and TWA, Max, Min, STEL, date, time  
**Digital Output:** RS-232  
**Operating Temperature:** 14 to 122 F (-10 to 50 C)  
**Storage Temperature:** -4 to 158 F (-20 to 70 C)  
**Software:** Windows driven for graphical and data translation  
**Power:** Rechargeable NiMH battery  
**Run Time:** > 10 hrs (fully charged)  
**Charging Time:** < 10 hours  
**Humidity:** 95% non-condensing  
**Dimensions:** 3 x 6 x 9 in (7.6 x 15.2 x 22.9 cm)  
**Weight:** 2.3 kg (5 lbs)

### Ordering Information

Description	Cat. No.
AIR-AIDE Monitor Kit includes monitor (0.001 to 20 mg/m <sup>3</sup> ), NiMH battery, charger/adaptor (100-240 V), rotameter, impactor sleeve for TSP, DustComm Pro Software, cable, and instruction manual	770-600
<b>Accessories</b>	
Impactor Grease	770-211
Size-selective Impactors	
PM10	770-606
PM2.5	770-605
PM1.0	770-604
Respirable	770-603
Wireless Data Transfer Radio Modem, 900 MHz, 300-ft transmission	770-505
Wireless Data Transfer Radio Modem, 900 MHz, up to 1500-ft transmission	770-505X
Precipitation and Solar Cap	770-216
Tripod Mounting Stand for AIR-AIDE	770-607
Cleaning Kit includes dust-free air canister, lens cleaning solution, swabs, and lens tissue	770-305
<b>Replacement Parts</b>	
Calibration Standard	770-207
Impactor Sleeve for TSP	770-602
Battery Pack, NiMH	770-601

#### SKC Limited Warranty and Return Policy

SKC products are subject to the SKC Limited Warranty and Return Policy, which provides SKC's sole liability and the buyer's exclusive remedy. To view the complete SKC Limited Warranty and Return Policy, go to <http://www.skcinc.com/warranty.asp>.

