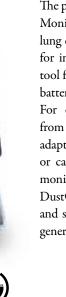
# **Portable Fixed-point Dust Survey Tool**

- High resolution (0.001 mg/m³) and temperature stability
- Long-life air sample pump for accurate 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/adapter
- 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/m³, 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/adapter. 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 Fixed-point Dust Survey Tool**

### **AIR-AIDE Applications**

- Chromate

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 - Toxic soil remediation

- Welding fumes - Tobacco smoke
- Silica - Construction dust
- Coal dust - Dry chemical
- Wood/paper - Oil mists
- Concrete/cement - Grinding dusts
- Cadmium - Pharmaceuticals
- Nuisance dusts - Spray paint

• Pre-determination of air quality for ventilation system design

- Grain

- 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: ± 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, ISO 12103-1

**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 µm

Particle Size Measurement: 1 μm, 2.5 μm, 4.0 μm, or 10 μm

**Precision:** ± 0.003 mg/m³ (3 mg/m³) **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/m³ 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 **Operating 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/m³), NiMH battery, charger/adapter (100-240 V), rotameter, calibration standard, impactor sleeve for TSP, DustComm Pro	
Software, cable, and instruction manual	770-600
Accessories	
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
Replacement Parts	
Calibration Standard	770-207
Impactor Sleeve for TSP	770-602
Battery Pack, NiMH	770-601

