

AIR-AIDE

Airborne Particulate Monitor

Portable Direct-reading Survey Tool

- High resolution and temperature stability
- Long-life air sample pump maintains accurate 2 L/min flow for particle separation
- Interchangeable size-selective impactors — choose PM10, PM2.5, PM1.0, or ISO respirable (4.0 μm)
- 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 up to 15 months without downloading
- On-screen programming of sampling and data storage parameters
- DustComm Pro Software (PC-based) included for downloading, basic trend analysis, and comprehensive graphical reporting
- User-defined audible alarm
- Location codes for tagging data
- Displays concentration in mg/m^3 and TWA, STEL, Max, Min, date, and time
- Optional wireless data transmission to PC



The portable AIR-AIDE™ Airborne Particulate Monitor is a fixed-point monitor used to survey dust levels. AIR-AIDE is ideal for indoor air quality investigations and as a tool for compliance monitoring. 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.



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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
 - Toxic soil remediation
 - Tobacco smoke
 - Construction dust
 - Dry chemical
 - Oil mists
 - Grinding dusts
 - Pharmaceuticals
 - Spray paint
 - Grain
- 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
- LEED Green Building indoor air quality investigations

Performance Profile

Accuracy:	± 10% to filter gravimetric SAE fine test dust
Resolution:	0.001 mg/m ³
Calibration:	NIOSH gravimetric method, NIST traceable, SAE fine test dust
Sensing Range:	0.001 to 20.0 mg/m ³ or 0.01 to 200 mg/m ³ (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/m ³ (3 mg/m ³)
Sampling Flow Rate:	2 L/min
Display:	Alphanumeric LCD, 4 lines, 20 characters, mg/m ³ 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 sec to 15 mos
Sampling Rate:	Short-term: 2, 4, and 10 sec Long-term: 1, 10, and 30 min
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 ³ 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:	DustComm Pro Software for graphical and data translation
Power:	Rechargeable NiMH battery
Run Time:	> 10 hrs (fully charged)
Charging Time:	< 10 hrs
Humidity:	95% non-condensing
Dimensions:	3 x 6 x 9 in (7.6 x 15.2 x 22.9 cm)
Weight:	5 lbs (2.3 kg)

Ordering Information

Description	Cat. No.
AIR-AIDE Monitor Kit includes monitor (0.001 to 20 mg/m ³), NiMH battery, charger/adaptor (100-240 V), rotameter, 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 (4 µm)	770-603
Wireless Data Transfer Radio Modem, 900 MHz, up to 1500-foot transmission	770-505X
Precipitation and Solar Cap	770-216
Tripod Mounting Stand for AIR-AIDE	770-607
Cleaning Kit includes dust-free air canister, swabs, and lens tissue	770-305
Replacement Parts	
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>.

