EPAM-5000

Direct Readout Plus Filter Sample for EPA PM Criteria

- **Fast, easy setup**

- **Highly sensitive and accurate**
  - 0.001 to 20.0 mg/m^3 for particles 0.1 to 100 µm
  - Optional 0.01 to 200 mg/m^3 and 0.10 to 2000 mg/m^3 ranges available
  - Accuracy ± 10% filter gravimetric SAE fine test dust

- **High correlation to EPA PM10 methods and TEOM®**
  - Ideal for saturation sampling

- **Internal air sample pump for 1 to 4 L/min flows***

- **Unique aerodynamic particle-sizing real-time sensor**
  - Use optional EPA FRM-style cassette holder for gravimetric reference

- **Immediate display and data storage**

- **Internal temperature compensation for ambient use**

- **Interchangeable size-selective impactors for EPA parameters**
  - PM10, PM2.5, PM1.0, or TSP

- **Rechargeable lead-acid battery for up to 24-hour operation**
  - Continuous monitoring with AC adapter

- **Easy four-key menu driven operation**

- **Stores up to 15 months of data**
  - RS232 digital output

- **Easy-to-use DustComm Pro data analysis and reporting software included**

- **Portable and compact**
  - 14 x 6 x 10 inches (35.6 x 15.2 x 25.4 cm)
  - 10 pounds (4.5 kg)

- **Real-time clock and data display**

- **Audible alarm siren**

Handy tool pouch

Removable cover

Door for monitoring with closed cover (not visible in photo)

Interchangeable size-selective impactor (PM10, PM2.5, PM1.0, or TSP)

Accessible sensor compartment with clean air purging

Temperature compensated electronics with datalogging

Large, easy-to-read display

Rugged watertight carry case

24-hour rechargeable battery with status indicator

Internal audible alarm

Easy 4-key operation

EPAM-5000

Description

The HAZ-DUST EPAM-5000 is a portable microprocessor-based particulate monitor suitable for ambient, environmental, and indoor air quality investigations. Highly sensitive, this monitor uses light scattering to measure particle concentration and provide immediate real-time determinations and data recordings of airborne particle concentration in mg/m^3. Interchangeable size-selective impactors allow PM10, PM2.5, PM1.0, or TSP monitoring. The EPAM-5000's unique aerodynamic particle sizing and 47-mm in-line filter holder loaded with appropriate filter provide concurrent gravimetric sampling. Sample for up to 24 hours on one battery and store up to 15 months of monitoring data. Download and store sampling data on a PC for further analysis using included DustComm Professional Software. Trend analysis and reporting can also be generated. The EPAM-5000 offers a network software option for Windows and Apple.

* *Internal pump has variable flow rate designed for use at 4.0 L/min to achieve proper size-selection with EPAM impactors.*

New EPAM-5000 Features

- **User-programmable start and stop time for unattended data collection**

- **On-screen user-selectable sampling parameters retained in memory for quick, easy deployment when sampling parameters remain unchanged**

- **Wireless data transmission option transmits data up to 5 miles**

- **Improved DustComm Pro PC Software provides:**
  - Greater flexibility in graphical reports — create and label in new "draw and paint" program
  - Basic trend analysis
  - Live data feed and logging from wireless data transmission

- **Wireless network software option available for Windows and Apple**

EPAM-5000 Applications

- Quantifying off-site particulate migration

- Surveying for PM2.5 and PM10

- Monitoring dust generation during drilling and excavation

- Evaluating dust suppression and engineering controls

- Locating and identifying "hot spots"

- Emergency response and fugitive emissions compliance

- Determining level of respiratory protection

- Survey of workplace for OSHA/EPA compliance

- Evaluating worker exposure to airborne contaminants

- Dust collector/ventilation system checks

- Monitoring lung-damaging particles in factories and buildings

- Complimentary instrument for all EPA and OSHA personal and ambient particulate air sampling procedures

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.

Performance Profile

Sensing range:	0.001 to 20 mg/m^3
	0.01 to 200 mg/m^3 (optional)
	0.10 to 2000 mg/m^3 (optional)
Particle size range:	0.1 to 100 µm
Precision:	± 0.003 mg/m^3 (3 µg/m^3)
Accuracy:	± 10% filter gravimetric SAE fine test dust
Sampling flow rate:	1.0 to 4.0 L/min with variable adjustment
Filter cassette holder:	47 mm, FRM style
	37 mm or 25 mm cassette (optional)
Alarm output:	90 dB at 3 ft
Analog output:	0 to 2 vdc
Recording time:	1 sec to 15 mos
Sampling rate:	1 sec, 10 sec, 1 min, and 30 min
Data storage:	21,600 data points
Security code:	4-digit combinations
Memory and time storage:	> 5 years
Data display:	Concentration in mg/m^3 and TWA, MAX, MIN, STEL, Date, and 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)
Power:	Rechargeable lead-acid and interchangable battery
Operating time:	≥ 24 hrs on battery
Charging time:	Approx. 22 hrs
Dimensions (case):	14 x 6 x 10 in (35.6 x 15.2 x 25.4 cm)
Weight:	10 lbs (4.5 kg)

Ordering Information

Each kit contains the EPAM-5000 monitor with a specific cut-point impactor, battery and charger (110-240 V), DustComm Pro Software (Windows 2000, NT, ME, and XP compatible), computer cable, manual, and carry case.

Description	Cat. No.
EPAM-5000 Monitor Kit with 10-µm impactor ▣	**770-203**
EPAM-5000 Monitor Kit with 2.5-µm impactor ▣	**770-202**
EPAM-5000 Monitor Kit with 1.0-µm impactor ▣	**770-201**
Calibration Standard	**770-207**
Filter Holder, 47 mm, for gravimetric sampling, *requires filter sold separately*	**770-215**
Accessory	
Air Scan Multi-modular Weather Station, 110 V, wind speed and direction, temperature and RH with radiation shield, rainfall sensor, and barometric pressure	**770-2000**

▣ *Requires calibration with equipment sold separately.*

Optional accessories and interchangeable impactors available.
Call SKC for more information.