airmet
Work with Confidence

EPAM-5000

Direct Readout Plus Filter Sample for EPA PM Criteria

The Haz-Dust EPAM-5000 is a portable microprocessor-based particulate monitor suitable for ambient, environmental, and indoor air quality investigations and baseline surveys. 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, and PM1.0 monitoring; TSP measuring does not require an impactor. 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 Pro Software. Trend analysis and reporting can also be generated. The EPAM-5000 offers a network software option for Windows.

- ➥ **Fast, easy setup**
- ➥ **Highly sensitive and accurate**
  - 0.001 to 20.0 mg/m3 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 4 L/min sample pump**
- ➥ **Unique aerodynamic particle-sizing real-time sensor**
  - 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, and PM1.0; measures TSP without impactor
- ➥ **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**
  - RS-232 digital output
- ➥ **DustComm Pro data analysis/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**
- ➥ **90-dB alarm siren**
- ➥ **Temperature controlled enclosure accessory available**

Handy tool pouch

Removable cover

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

Interchangeable size-selective impactor (PM10, PM2.5, or PM1.0); measures TSP without impactor

Easy to clean sensor with self-purging capabilities

Temperature compensated electronics with datalogging

Large, easy-to-read display

Lightweight, portable weatherproof case

Wireless option for transmission up to 5 miles with internet

24-hour rechargeable battery with status indicator (continuous AC power operation available)

90-dB alarm siren

Easy 4-key operation

CE

EPAM-5000

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SKC

Air Sampling
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EPAM-5000

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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:	4 L/min
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; continuous on AC
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)

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 with internet
- 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

EPAM-5000 Applications

- Quantifying off-site particulate migration
- Surveying for PM2.5, PM10, and PM1.0
- 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
- Complementary instrument for all EPA and OSHA personal and ambient particulate air sampling procedures

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. Measures TSP without impactor

Description		Cat. No.
EPAM-5000 Monitor Kit with 10-µm impactor 🅲	PM10	**770-203**
EPAM-5000 Monitor Kit with 2.5-µm impactor 🅲	PM2.5	**770-202**
EPAM-5000 Monitor Kit with 1.0-µm impactor 🅲	PM1.0	**770-201**
Accessories		
Calibration Standard		**770-207**
Filter Holder, 47 mm, for gravimetric sampling, *requires filter sold separately*		**770-215**
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.