

AM520 SIDEPAK

Personal Aerosol Monitor



The SidePak AM520 Personal Aerosol Monitor is a small, portable, battery operated, data-logging, light-scattering laser photometer that provides real-time aerosol mass concentration readings of dusts, fumes, mists, smoke and fog within a worker's breathing zone.

Newly designed inlet conditioners increase the mass concentration capability and provide size fraction cut points for PM₁₀, Respirable (PM₄), PM₅ (China Respirable), PM_{2.5}, PM_i and 0.8µm Diesel Particulate Matter (DPM).

Real-time measures and evaluates without delay, facilitating immediate feedback and corrective action within the workplace. This means no more waiting for sampling data to be returned from the analytical lab.

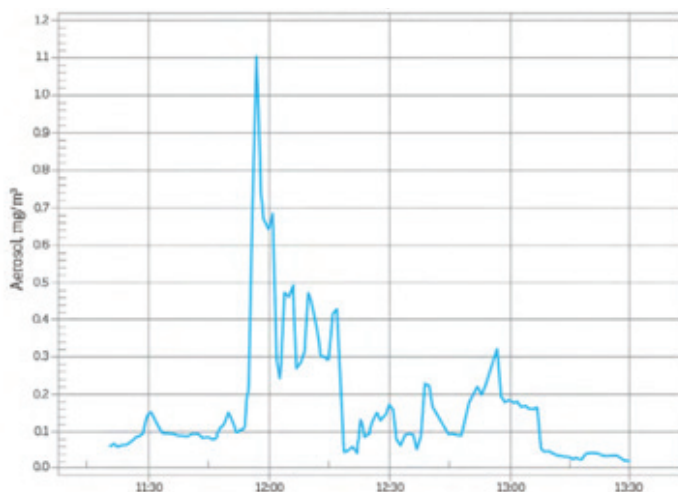
The AM520 is the perfect solution for real-time, personal aerosol sampling in

a variety of workplace environments, including but not limited to:

- general industry
- foundries
- construction sites
- chemical plants
- refineries
- petrochemical
- power and utilities
- transportation
- aerospace
- maritime
- confined space
- mining

KEY FEATURES

- Robust impactors for higher mass concentration range
- Audible and visual alarms
- 0.8µm DPM impactor
- PM₅ China respirable size fraction impactor
- High capacity battery
- Colour OLED display
- Real-time measurement enables data-logging for "in-the-field" data analysis
- User selectable alarm levels
- Push button menu operation OR programmable through TrakPro™v5 Software



Time history – Graphically displayed, logged data can display high and low exposure concentrations that cannot be identified with traditional gravimetric sampling. This example of actual customer data illustrates the value of seeing what time peak exposure occurred. This enables an industrial hygienist to investigate the cause of the spike at 12:00 and recommend corrective actions specific to the cause without delay.

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SPECIFICATIONS Specifications subject to change without notice

SENSITIVITY	
Sensor type:	90° light scattering, 650nm laser diode
Calibration:	Calibrated against a gravimetric reference using the respirable fraction of a standard ISO 12103-1, A1 Test Dust.
Aerosol Concentration Range:	0.001 to 100 mg/m.
Particle Size Range:	0.1 to 10 µm
Minimum Resolution:	0.0001 mg/m.
Zero Stability:	±0.001 mg/m. over 24 hrs using 10 second time constant
Temperature Coefficient:	Approx. +0.0005 mg/m. per °C (for variations from temperature at which instrument was last zeroed)
Flow rate:	User-adjustable, 0 to 1.8 L/min Nb. Upper range is dependent on impactor or cyclone attached to the SidePak AM520 Monitor
TEMPERATURE RANGE:	
Operating Range:	0° to +50°C / 32° to 120°F
Storage Range:	20° to +60°C / -4° to 140°F
Humidity:	0 to 95% RH (non-condensing)
BUILT-IN INLETS	
Standard Inlet:	Not size specific
PM1.0 impactor:	50% cut-off at 1.0µm
PM2.5 impactor:	50% cut-off at 2.5µm
PM5.0 impactor:	50% cut-off at 5.0µm
PM10 impactor:	50% cut-off at 10.0µm
ATTACHABLE CYCLONES	
4µm Dorr-Oliver:	50% cut-off at 4.0µm
0.8µm DPM:	50% cut-off at 0.8µm
DATA LOGGING	
Data Points:	Approx. 80,000 (55days, once per minute)
Logging Interval:	User-adjustable -1 sec, 1 min, 5 min, 15 min 30 min

ALARMS	
Alarms types:	General, STEL
Default settings:	0.5 mg/m ³ , 1 mg/m ³ , 3 mg/m ³ , 5 mg/m ³ , 15mg/m ³ and off. Programmable from 0.001 to 999mg/m ³ through TrakPro Software
Alarm indicator:	95 dBA audible horn, blinking red LED, flashing red OLED display
Ringback delay:	30 sec, 1 mon, 3 min, 5 min, 10 min, Off
USER SELECT CALIBRATION FACTORS	
Factory setting:	1.0 (non-adjustable)
Ambient setting:	0.38 (non-adjustable)
User-defined setting:	5, with user-defined labels via TrakPro Software
Range:	0.1 to 10.0, user-adjustable
PHYSICAL	
Dimensions:	129. x 94 x 78.4mm / 5.1 x 3.7 x 3.1 inch
Weight:	620g / 22oz (with battery)
Display:	160 x 128 resolution colour OLED
Tripod mounting nut:	. -020 female thread
BATTERY	
Rating:	5400 mAH Li-Ion pack
Run time:	Greater than 20 hrs at 1.7Lpm with a PM25 impactor
Charge time:	4 hrs (typical with a fully depleted battery)
Power Supply:	Input: 100 to 240 VAC, 50 to 60 Hz Output: 12 VDC @ 3.0A
Communications Interface:	USB 2.0 to USB Micro-B (socket)
APPROVALS	
Immunity:	EN61326-1:2013
Emissions:	EN61326-1:2013 Class B
Safety:	IEC 61010-1:2010 / IEC 60825-1:2014



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