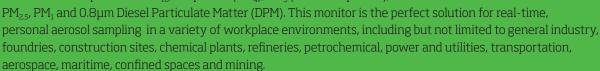
EROSOL MONITO

MODEL AM520

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 breathing zone. Newly designed inlet conditioners increase the mass concentration capability and provide size fraction cut points for PM₁₀, Respirable (PM₄), PM₅ (China Respirable),



New 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
- + Color OLED display

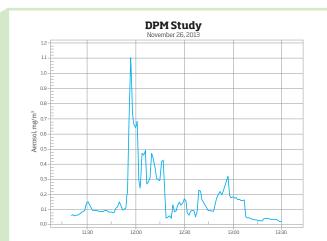
Features and Benefits

- + Real-time mass concentration measurement and data logging for "in-the-field" data analysis
- + Push button menu operation or programmable through newly improved TrakPro™ v5 Software
- + User selectable alarm levels to alert workers to high aerosol concentrations
- + Newly designed robust impactors enable reliable size fraction measurements at higher aerosol concentrations over longer run times

Dare to Compare!

User-settable audible and visual alarms as well as newly designed impactors, for more size fraction options, make this instrument a valuable tool for workplace exposure monitoring. The new impactors provide reliable size fraction at a much higher mass concentration, allowing a longer run time with improved accuracy.

SIDEPAK™ AM52



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 of the exposure without delay.



UNDERSTANDING, ACCELERATED

SPECIFICATIONS

SIDEPAK™ PERSONAL AEROSOL MONITOR MODEL AM520

Sensitivity

Sensor Type 90° light scattering, 650 nm laser diode Calibrated against a gravimetric reference using the respirable fraction of standard ISO 12103-1, A1 Test Dust Calibration

Aerosol

Concentration Range 0.001 to 100 mg/m³ Particle Size Range 0.1 to $10 \, \mu m$ Minimum Resolution 0.001 mg/m³

±0.001 mg/m³ over 24 hours using Zero Stability

10 second time constant

Temperature Coefficient Approximately +0.0005 mg/m³ per °C

(for variations from temperature at which

instrument was last zeroed)

Flow Rate

Range User-adjustable, 0 to 1.8 liters/min (L/min) Note: Upper range is dependent on impactor or cyclone attached to the SidePak AM520 Monitor

Temperature Range

Operating Range 32° F to 120° F (0° C to 50° C) Storage Range -4° F to 140° F (-20° C to 60° C) Operational Humidity 0 to 95% RH, non-condensing

Time Constant (OLED Display)

Range User-adjustable, from 1 to 60 seconds

Built-in Inlets

Standard inlet Not size-specific PM_{1.0} impactor 50% cut-off at 1.0 µm PM_{2.5} impactor 50% cut-off at 2.5 µm 50% cut-off at 5.0 µm PM_{5.0} impactor PM₁₀ impactor 50% cut-off at 10.0 μm

Attachable Cyclones

4 µm Dorr-Oliver 50% cut-off at 4.0 µm 0.8 um DPM 50% cut-off at 0.8 µm

Alarms

Alarm Types General, STEL

 0.5 mg/m^3 , 1 mg/m^3 , 3 mg/m^3 , 5 mg/m^3 , **Default Settings**

15 mg/m³, Off

Programmable from 0.001 to 999 mg/m³

through TrakPro Software

Alarm Indicator

95 dBA (at one foot) audible horn, blinking red LED, flashing red OLED display 30 sec, 1 min, 3 min, 5 min, 10 min, Off

Ringback Delay **Data Logging**

Approx. 80,000 Data Points

(55 days logging once per minute)

User-adjustable, from 1 second to Logging Interval

60 minutes

User-Select Calibration Factors

Factory Setting 1.0 (non-adjustable) Ambient Setting 0.38 (non-adjustable) 5, with user-defined labels **User-Defined Settings** via TrakPro Software

0.1 to 10.0, user-adjustable Range

Physical

External Dimensions 5.1 x 3.7 x 3.1 inch

129.5 mm x 94 mm x 78.4 mm

with 803300 battery

Weight 22 oz (0.62 kg) with 803300 battery 160 x 128 resolution color OLED display Display

Tripod Mounting Nut 14-20 female thread

Battery

Rating 5400 mAH Li-Ion Pack Run Time Greater than 20 hours at 1.7Lpm with a PM_{2.5} impactor Charge Time 4.0 hours (typical with a fully

depleted battery)

Power Supply (p/n 803302)

Input Voltage Range 100 to 240 VAC, 50 to 60 Hz

Output Voltage 12 VDC @ 3.0A

Maintenance

Factory Clean/Calibrate Recommended annually User Zero Calibration Before each use

User Flow Calibration As needed with use of inlet conditioner

Communications Interface

USB 2.0 Type

Connector, Instrument USB Micro-B (socket)

Minimum Computer Requirements for TrakPro Software

Communications Port Universal Serial Bus (USB) v2.0 or higher Microsoft Windows® 7, 8, or 10 Operating System (32-bit or 64-bit) operating systems

Approvals

AM520 with TSI Battery Pack P/N 803300

Immunity EN61326-1:2013 Emissions EN61326-1:2013 Class B Safety IEC 61010-1:2010 IEC 60825-1:2014

SAVE TIME AND MONEY

Real-time aerosol monitoring instruments like the SidePak AM520 Personal Aerosol Monitor can be used to measure and evaluate workplace exposures without delay, facilitating immediate feedback and corrective action. This means no more waiting for sampling data to be returned from the analytical lab.





Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

ﷺ UK Office Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.