



SIDEPAK™ AM520/AM520i PERSONAL AEROSOL MONITOR

FEATURES AND BENEFITS (A4)

New Features of AM520	Benefits
High Concentration Impactors	<ul style="list-style-type: none"> + New design with sintered metal disk for PM₁, PM_{2.5}, PM₅, and PM₁₀ size fractions + Use of vacuum oil on disk allows for greater particle build-up, particles always being presented with a wet, sticky surface to adhere to + Convenient, integrated design eliminates need for clumsy lapel-mounted impactors + Accurate size fraction measurement for mass concentrations of up to 10 mg/m³ for 12-hours continuously + Expands range of activities that can be confidently measured with accurate size fraction measurements
Audible and Visual Alarms	<ul style="list-style-type: none"> + Immediately react to unsafe work conditions and take appropriate actions - To activate engineering controls, or put on a respirator + Immediate feedback to workers regarding elevated aerosol concentrations + Audible alarm sounds at 95 dBA at 1' distance + OLED display turns "ORANGE" within 10% of alarm setpoint to alert worker, then turns "RED" when alarm is reached + Four, "RED" LEDs flash on each side of the display on the membrane keypad when in alarm condition
STEL Alarm	<ul style="list-style-type: none"> + Used to track a worker's STEL exposure + Independently log a separate STEL test to track high exposures + Understand when workers have been potentially overexposed + User adjustable from 5 to 30-minutes
Intrinsic Safety Rating (AM520i only) Ex ia IIC T4 Ga Exia Class I, Div 1, Group A,B, C, D Class II, Div 1, Groups E, F, G Class III, Div 1	<ul style="list-style-type: none"> + Approved for use in hazardous/flammable atmospheres + Global IECEx/CSA-UL/ATEX Intrinsic Safety Ratings + Expands personal real-time aerosol monitoring capability to workers in: Chemical Plants, Petrochemical, Refineries, Mining, Hazardous Waste Sites, Confined Space, etc.
New 0.8 µm Diesel Particulate Matter Cyclone	<ul style="list-style-type: none"> + Measure Diesel Particulate Matter size fraction in real-time with photometer



New Features of AM520	Benefits
New PM₅ “China Respirable” Impactor	+ Industry’s first PM ₅ cyclone for real-time size selective aerosol mass sampling to meet China PM ₅ respirable dust standard
New “Full-Color” OLED Display (160 x 128)	+ Color display, easy to read in bright light + Displays real-time aerosol concentration, 8-hour TWA, test statistics, status messages and menu options + Displays pre-alarm and alarm indications on screen in brilliant orange and red, respectively
New Li-Ion High Capacity Rechargeable Battery Pack with Built-in Smart Battery Management System™ technology (Microchip built into battery pack monitors battery condition by precisely measuring total battery energy rather than estimating condition based on voltage)	+ Long run time—20+ hours + Longer battery life (high no. of charge/discharge cycles)---battery life in minutes of run time are displayed + Real-time battery condition, not just an estimate + Fast charging—4-hours typical
Works with New TrakPro™ V5 Data Analysis Software	+ Comprehensive report generation capability + Quickly create and print graphs for reports + Preprogram and store tests to be run later + Combine multiple instrument reports

Standard Features you Expect from TSI	Benefits
Compact and lightweight	+ Minimal interference with worker activity + Smallest, lightest battery operated personal photometer in the market
Rugged	+ Survives rough on-the-job treatment by workers
Easy-to-use, intuitive user interface with only 4 keys	+ Fast learning curve + Manual seldom needed
Built-in pump with user-adjusted flow rate	+ Allows for use with a variety of size-selective aerosol inlets
Data logging	+ “Exposure Trail” analysis – time history data review allows you to see when peak exposures occurred and where they occurred to quickly locate the source of exposure and correct it, reducing worker exposure + Recording of aerosol concentrations for later analysis and record-keeping
Industry standard Dorr-Oliver Respirable Cyclone included with kits	+ A complete package for breathing zone measurement of respirable aerosols
Real-time 8-hour TWA display	+ The "final" number in real time---no waiting
Removable battery pack	+ Battery can be charged while attached to the instrument or be removed and charged separately with power supply + Charge one battery while instrument is in use (additional battery sold separately) + No special charging base needed to charge battery

Standard Features you Expect from TSI	Benefits
AM520 Kits include everything you need to get started with real-time personal exposure monitoring including: battery, software, impactors, cyclones, charger, USB cable, sample tubing, tools and a carry case	<ul style="list-style-type: none"> + No guesswork trying to figure out what accessories to order. + Everything you need is in one kit
Replaceable belt clip	<ul style="list-style-type: none"> + Instrument stays securely attached to workers belt or harness
Survey mode for real-time readings	<ul style="list-style-type: none"> + Instant determination of real-time aerosol concentration
Manual mode data logging via front panel keypad	<ul style="list-style-type: none"> + Quickly and easily setup and start data logging without pre-programming with a computer first
Pre-programmed data logging	<ul style="list-style-type: none"> + Save time by setting test parameters ahead of time using TrakPro™ V5 software and your personal computer + Launch program from keypad
Test statistics including min., max., avg., elapsed time, 8-hour TWA	<ul style="list-style-type: none"> + Provides on the spot test summary information on the LCD display and via TrakPro V5 software
Store multiple tests on the AM520	<ul style="list-style-type: none"> + No need to download after each test
Store user-defined calibration factors for up to 10 different aerosols based on comparisons to gravimetric samples	<ul style="list-style-type: none"> + No need to memorize values, just select from the list after defining custom calibration factors
Apply user-defined labels to calibration factors. For example, "WOOD DUST" or "SILICA DUST"	<ul style="list-style-type: none"> + Select calibration factors from your list based on the name you defined + No memorizing + No errors
Socket for tripod mounting	<ul style="list-style-type: none"> + Convenient mounting for area sampling in locations where there is no suitable place to set the instrument down



UNDERSTANDING, ACCELERATED

TSI Incorporated – Visit our website www.tsi.com for more information.

USA	Tel: +1 800 874 2811	India	Tel: +91 80 67877200
UK	Tel: +44 149 4 459200	China	Tel: +86 10 8219 7688
France	Tel: +33 1 41 19 21 99	Singapore	Tel: +65 6595 6388
Germany	Tel: +49 241 523030		