



AMM - 3520 Aerosol Mass Monitor



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Analytical Technologies Limited

An ISO 9001 Certified Company



Introduction

The AMM3520 and AM520 Personal Aerosol Monitors are small, portable, battery-operated, data-logging, light-scattering laser photometers that provide 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, PM2.5, PM1 and .8µm Diesel Particulate Matter (DPM).

These monitors are 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, pre-cast concrete and cement, chemical plants, refineries, petrochemical, power and utilities, transportation, aerospace, maritime, confined spaces and mining. For monitoring in flammable and explosive environments—Model AMM3520 is the smallest intrinsically safe real-time photometric personal exposure monitor currently available on the global market.

New Features and Benefits

- Dual display and logging of mass concentration and response concentration on one screen
- Stores up to 10 custom calibration factors on the instrument for different applications
- Data Analysis Software updated with;
- Custom calibration factor calculator to simplify calibration factor process
- Continued ability to name custom calibration factors and upload them to the instrument
- Enhanced alarm features to include response concentration alarm value

>> Features and Benefits

- Real-time mass concentration and secondary response concentration measurement and data logging for "in-the-field" data analysis of multiple aerosols
- Push button menu operation or programmable through newly improved Data Anaylsis 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
- Model AMM3520 designed and tested to pass Intrinsic safety requirements as established by IEC (International Electrotechnical Commission)



>> Specifications

Sensitivity	
Sensor Type	90° light scattering, 650 nm laser diode
Calibration	Calibrated against a gravimetric reference using the respirable
	fraction of standard ISO 12103-1, A1 Test Dust
Aerosol	
Concentration	Range 0.001 to 100 mg/m ³
Particle Size Range	0.1 to 10 μm
Minimum Resolution	0.001 mg/m ³
Zero Stability	±0.001 mg/m ³ over 24 hours using
	10 second time constant
Temperature Coefficient	Approximately +0.0005 mg/m ³ 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 AM3520
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 Displa	
Range	User-adjustable, from 1 to 60 seconds
Built-in Inlets	
Standard inlet	Not size-specific
PM1.0 impactor	50% cut-off at 1.0 μm
PM2.5 impactor	50% cut-off at 2.5 μm
PM5.0 impactor	50% cut-off at 5.0 μm
PM10 impactor	50% cut-off at 10.0 μm



Attachable Cyclones	
4 μm Dorr-Oliver	50% cut-off at 4.0 μm
0.8 μm DPM	50% cut-off at 0.8 μm
Alarms	
Alarm Types	General, STEL
Default Settings	0.5 mg/m³, 1 mg/m³, 3 mg/m³, 5 mg/m³, 15 mg/m³, Off
Programmable	from 0.001 to 999 mg/m³ through Software
Alarm Indicator	95 dBA (at one foot) audible horn, blinking red LED, flashing
	red OLED display
Ringback Delay	30 sec,1 min, 3 min, 5 min, 10 min, Off
Data Logging	
Data Points	Approx. 80,000
	(55 days logging once per minute)
Logging Interval	User-adjustable, from 1 second to 60 minutes
Communications Interface	
Communications Interface	USB 2.0
Туре	USB 2.0 USB Micro-B (socket)
	USB 2.0 USB Micro-B (socket)
Туре	USB Micro-B (socket)
Type Connector, Instrument	USB Micro-B (socket)
Type Connector, Instrument User-Select Calibration Fac t	USB Micro-B (socket)
Type Connector, Instrument User-Select Calibration Fact Factory Setting	USB Micro-B (socket) t ors 1.0 (non-adjustable)
Type Connector, Instrument User-Select Calibration Fact Factory Setting Ambient Setting	USB Micro-B (socket) tors 1.0 (non-adjustable) 0.38 (non-adjustable)
Type Connector, Instrument User-Select Calibration Fact Factory Setting Ambient Setting User-Defined Settings Range	USB Micro-B (socket) tors 1.0 (non-adjustable) 0.38 (non-adjustable) 10, with user-defined labels via Software
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Type Connector, Instrument User-Select Calibration Factor Factory Setting Ambient Setting User-Defined Settings Range Physical	USB Micro-B (socket) tors 1.0 (non-adjustable) 0.38 (non-adjustable) 10, with user-defined labels via Software 0.1 to 10.0, user-adjustable
Type Connector, Instrument User-Select Calibration Factor Factory Setting Ambient Setting User-Defined Settings Range Physical	USB Micro-B (socket) tors 1.0 (non-adjustable) 0.38 (non-adjustable) 10, with user-defined labels via Software 0.1 to 10.0, user-adjustable 5.1 x 3.7 x 3.1 inch 129.5 mm x 94 mm x 78.4 mm with 803322
Type Connector, Instrument User-Select Calibration Factor Factory Setting Ambient Setting User-Defined Settings Range Physical External Dimensions	USB Micro-B (socket) tors 1.0 (non-adjustable) 0.38 (non-adjustable) 10, with user-defined labels via Software 0.1 to 10.0, user-adjustable 5.1 x 3.7 x 3.1 inch 129.5 mm x 94 mm x 78.4 mm with 803322 battery
Type Connector, Instrument User-Select Calibration Factor Factory Setting Ambient Setting User-Defined Settings Range Physical External Dimensions Weight	USB Micro-B (socket) tors 1.0 (non-adjustable) 0.38 (non-adjustable) 10, with user-defined labels via Software 0.1 to 10.0, user-adjustable 5.1 x 3.7 x 3.1 inch 129.5 mm x 94 mm x 78.4 mm with 803322 battery 22 oz (0.62 kg) with 803322 battery



Battery Pack (Model AM3520 p/n 803300)

Rating	5100 mAH Li-Ion Pack
Run Time	Greater than 20 hours at 1.7Lpm with a PM2.5 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	Beforeeach use
User Flow Calibration	As needed with use of inlet conditioner

Minimum Computer Requirements for Software

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



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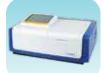
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HEMA 2062 Hematology Analyzer

Regulatory compliances



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