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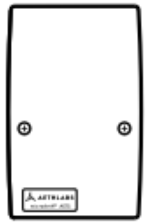
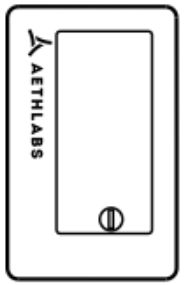
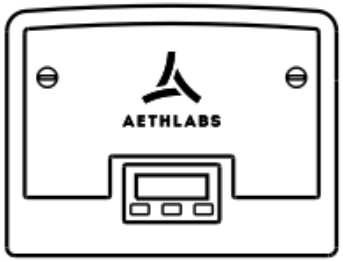
Features	 AE51	 MA200	 MA300	MA350
Measurement method	Optical absorption at 1 Wavelength	Optical absorption at 5 Wavelengths		
Measurement wavelengths	880 nm	880 nm, 625 nm, 528 nm, 470 nm, 375 nm		
DualSpot® Loading Compensation	-	√		
Timebases	1, 10, 30, 60 or 300 seconds	1, 5, 10, 30, 60 or 300 seconds		
Flow Rates	Internal pump provides 50, 100, 150, or 200 ml/min	Internal pump provides 50, 100, or 150 ml/min		

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Pump Options	Rotary Vane Pump	Standard internal diaphragm pump. Optional internal rotary vane pump.		Standard internal diaphragm pump. Optional brushless diaphragm pump.
Flow Control	Internal mass flowmeter with closed-loop control	Internal mass flowmeters with closed-loop control		
Filter Material	T60 Teflon-coated borosilicate glass fiber filter	Polytetrafluoroethylene (PTFE)		
Filter Capacity	Filter Strip (1 sampling location)	Filter Tape Cartridge (15 sampling locations)	Filter Tape Cartridge (85 sampling locations)	
Sensors	-	Accelerometer, Relative Humidity, Temperature, Altimeter / Barometer		
Dimensions	Length: 117 mm (4.6 in) Width: 66 mm (2.6 in) Depth: 38 mm (1.5 in)	Length: 136.75 mm (5.38 in) Width: 85 mm (3.35 in) Depth: 35.75 mm (1.41 in)	Length: 165.20 mm (6.50 in) Width: 125.20 mm (4.93 in) Depth: 39.70 mm (1.56 in)	Length: 199.90 mm (7.87 in) Width: 99.82 mm (3.93 in) Depth: 69.85 mm (2.75 in)
Weight	280 grams (9.92 ounces)	420 grams (14.82 ounces)	715 grams (25.22 ounces)	965 grams (34.04 ounces)
Memory	4 MB internal flash memory	16 GB internal flash memory		
On-board user interface	-	Low Power Screen, 3 Buttons		
Location services	-	GPS with internal antenna		
Date/Time format	-	ISO 8601 with satellite synchronization		
Wireless	-	802.11b Wi-Fi with AES hardware encryption Bluetooth Low Energy		
Case	-	-	-	Outdoor Rated Sealed Enclosure
Connections	USB 2.0	USB 2.0, 3.3V TTL Serial, DC input via barrel jack		Via sealed connector for 3.3V TTL Serial and DC power input, USB 2.0 on inside panel
Battery	1950 mAh Built-in rechargeable lithium-ion battery	3200 mAh Built-in recharge- able lithium-ion battery	12800 mAh Built-in rechargeable lithium-ion battery	
Recharging	USB charging	Fast charging DC via barrel jack AC adapter or USB charging		Sealed connector for fast charging DC via barrel jack AC adapter or USB charging

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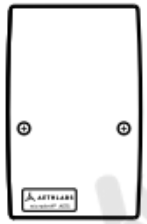
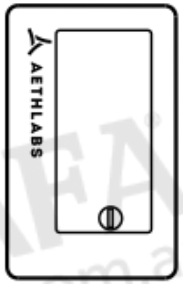
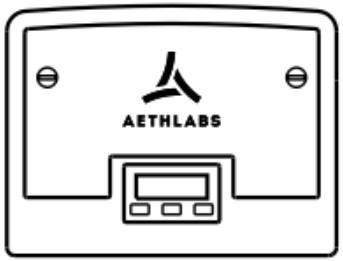
Applications	 AE51	 MA200	 MA300	MA350
Continuous real-time monitoring	√	√	√	√
Mobile monitoring	√	√	√	√
Daily monitoring	√	√		
Multi-week monitoring		√		
Multi-month monitoring			√	√
Personal monitoring	√	√	√	
Exposure assessment	√	√		
Health effects	√	√		
Occupational safety	√	√		
UAVs & vertical profiling	√	√		
Wearable	√	√		
Source apportionment		√	√	√

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Tobacco		√	√	√
Woodsmoke		√	√	√
Biomass		√	√	√
Ambient air monitoring			√	√
Stationary monitoring			√	√
Indoor air quality		√	√	√
Engine testing			√	√
Vehicle on-road mobile monitoring			√	
Networks			√	√
Fence line monitoring				√
Near-road monitoring				√
Urban environment on street poles				√

Specifications are subject to change without notice. Patents pending. DualSpot® is used under license from Magee Scientific Corporation.

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