

AirSentry® II

Mobile AMC Detection System

Without measurement there is no control.



FEATURES

- Mobile cart – move the system quickly to high-priority sample locations
- High-sensitivity AirSentry II IMS analyzers detect ammonia, amines, acids, and chlorides compounds
- Onboard compressor, air-dryer, chemical filter, and vacuum pump
- Uninterruptable power supply provides over 30 minutes of uninterrupted sampling, even during transport
- Touch PC and software allow real-time graphing and data storage

BENEFITS

- Pinpoint AMC hotspots by narrowing in on contamination sources
- Characterize AMC concentrations in multiple areas of large cleanrooms
- AMC analyzers available when and where needed – deploy anytime
- Real-time and historical concentration display

The AirSentry II Mobile AMC Detection System is the first truly mobile system for monitoring airborne molecular contamination (AMC) in cleanrooms. Mobility plays an important part in a strategic AMC monitoring program, allowing contamination source locations to be precisely located and quantified.

A local touch PC on the mobile cart provides instant feedback of AMC levels at each monitoring location. Facility Net software provides data storage and graphical displays in real-time while monitoring the specific environment.

Onboard, chemically filtered, clean dry air (CDA) and vacuum are supplied within the cart enclosure to ensure that the analyzer can sample immediately upon relocation without the significant analyzer warm-up time other analyzers typically incur.

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specifications

Cart size (l, w, h)	38 x 25.5 x 48.5 in (96.5 x 64.8 x 123.2 cm)	
Weight	< 340 lb (154 kg)	
Analytical wetted surfaces	Teflon, electropolished 316 stainless steel	
CDA quality	< -60 °C dew point, chemically filtered	
CDA capacity	> 800 cc/min for > 30 minutes	
Working time (fully-charged/pressurized)	> 30 minutes	
Bypass CDA inlet (low vibration mode)	1/4" Swagelok	
Vacuum	25 kPa (absolute), 1,500 cc/min	
Available analyzers (LOD - Limit of Detection 3 σ)	AirSentry II Acids, 0 – 50 ppb _v	LOD = 0.2 ppb _v
	AirSentry II Amines, 0 – 50 ppb _v	LOD = 0.2 ppb _v
	AirSentry II Ammonia, 0 – 50 ppb _v	LOD = 0.2 ppb _v
	AirSentry II Chlorides, 0 – 50 ppb _v	LOD = 0.7 ppb _v
Temperature range	Operating	59 – 82 °F (15 – 28 °C)
	Storage	-40 – +122 °F (-40 – +50 °C)
Humidity range	Operating	30 – 50% RH
	Storage	0 – 90% RH
Communication and data transfer	Ethernet, USB	
Software	Facility Net and AirSentry II Service Software	
Operating system	Windows XP	
Utility requirements: User-supplied power (single phase)	115 VAC, 60 Hz 230 VAC, 50 HZ	

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Particle Measuring Systems, Inc. reserves the right to change specifications without notice.

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