

AirSentry® II

Mobile AMC Detection System



Designed to enhance fixed AMC monitoring programs, the AirSentry II Mobile AMC Detection System is the first truly mobile system for monitoring airborne molecular contamination in cleanrooms. Mobility plays an important part in a strategic AMC monitoring program, allowing contamination sources to be quickly located, quantified and eliminated.

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 analyzers can sample immediately upon relocation without long analyzer warm-up times incurred by competitive systems.

BENEFITS

- Pinpoint AMC issues in real-time, by identifying contamination sources
- Characterize AMC levels in multiple areas of large cleanrooms
- AMC analyzers available where and when needed, to deploy anytime
- Continuous actionable data in the process tool and facility

FEATURES

- High-sensitivity AirSentry II ion mobility spectrometry (IMS) analyzers detect acids, amines, ammonia and chlorides
- Mobile cart – move the system quickly to high-priority sample locations
- Onboard compressor, air-dryer, chemical filter and vacuum pump
- Battery back-up enables uninterrupted sampling, even during transport
- Touch PC and software display real-time and historical concentration data
- Optional wireless data communication

APPLICATIONS

- Troubleshooting and spatial identification of contamination sources
- Isolation and verification of AMC events detected by multi-point monitoring systems
- Testing of AMC levels within minienvironments and process tools
- Testing and validation of chemical filtration performance

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Specifications

Cart size (H x W x L)	49.6 x 25.6 x 39.4 in (126.0 x 65 x 100.0 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, under optimal conditions	
Bypass CDA inlet (low vibration mode)	1/4" Swagelok®	
Vacuum	25 kPA (absolute), 1,500 cc/min	
Available analyzers (LDL - Lower Detection Limit 3 σ)	AirSentry II Acids, 0 – 50 ppb _v AirSentry II Amines, 0 – 50 ppb _v AirSentry II Ammonia, 0 – 50 ppb _v AirSentry II Chlorides, 0 – 50 ppb _v	LDL = 0.2 ppb _v LDL = 0.2 ppb _v LDL = 0.2 ppb _v LDL = 0.5 ppb _v
Temperature range Operating storage	59 – 82 °F (15 – 28 °C) - 40 – + 122 °F (- 40 – + 50 °C)	
Humidity range Operating storage	30 – 50% RH 0 – 90% RH	
Communication and data transfer	Ethernet , USB	
Software	Facility Net and AirSentry II Service Software	
Operating system	Microsoft Windows® 7	
Utility requirements: User-supplied power (single phase)	115 VAC, 60 Hz 230 VAC, 50 Hz	
CE-Declaration of Conformity	CE-certified	

* CDA quality and capacity are also required on an external CDA supply line, when the cart is used in low-vibration mode.

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

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