

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 LDL = 0.2 ppb _v AirSentry II Amines, 0 – 50 ppb _v LDL = 0.2 ppb _v AirSentry II Ammonia, 0 – 50 ppb _v LDL = 0.2 ppb _v AirSentry II Chlorides, 0 – 50 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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HEADQUARTERS

5475 Airport Blvd
Boulder, Colorado 80301 USA
T: +1 303 443 7100, +1 800 238 1801

Instrument Service & Support
T: +1 800 557 6363

Customer Response Center
T: +1 877 475 3317
E: info@pmeasuring.com

www.pmeasuring.com
info@pmeasuring.com



**PARTICLE
MEASURING
SYSTEMS®**
a spectris company

GLOBAL OFFICES

AUSTRIA
T: +43 512 390 500
E: pmsaustria@pmeasuring.com

BENELUX
T: +32 10 23 71 56
E: pmsbelgium@pmeasuring.com

BRAZIL
T: +55 11 5188 8227
E: pmsbrazil@pmeasuring.com

CHINA
T: +86 21 6113 3600
E: pmschina@pmeasuring.com

FRANCE
T: 33(0)1 60 10 32 96
E: pmsfrance@pmeasuring.com

GERMANY
T: +49 6151 6671 632
E: pmsgermany@pmeasuring.com

ITALY
T: +39 06 9053 0130
E: pmsrl@pmeasuring.com

JAPAN
T: +81 3 5298 8175
E: pmsjapan@pmeasuring.com

KOREA
T: +82 31 286 5790
E: pmskorea@pmeasuring.com

MEXICO
T: +52 55 2271 5106
E: pmsmexico@pmeasuring.com

NORDIC
T: +45 707 028 55
E: pmsnordic@pmeasuring.com

PUERTO RICO
T: +1 787 718 9096
E: pmspuertorico@pmeasuring.com

SINGAPORE
T: +65 6496 0330
E: pmsingapore@pmeasuring.com

SWITZERLAND
T: +41 71 987 01 01
E: pmsswitzerland@pmeasuring.com

TAIWAN
T: 886-3-5525300 Ext: 301
E: pmstaiwan@pmeasuring.com