

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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Without measurement there is no control

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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)	<div> AirSentry II Acids, 0 – 50 ppb_v LDL = 0.2 ppb_v </div> <div> AirSentry II Amines, 0 – 50 ppb_v LDL = 0.2 ppb_v </div> <div> AirSentry II Ammonia, 0 – 50 ppb_v LDL = 0.2 ppb_v </div> <div> AirSentry II Chlorides, 0 – 50 ppb_v LDL = 0.5 ppb_v </div>
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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Swagelok® is a registered trademark of Swagelok Company.

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

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



MALAYSIA DISTRIBUTOR

ENVIROTERM SDN. BHD.
HEAD OFFICE
Lot 5035, Jalan 18/62,
Taman Perindustrian Sri Serdang,
43300 Seri Kembangan,
Selangor D.E., Malaysia.

T: +603 8210 8338
F: +603 8943 6012
E: sales@enviroterm.com
W: www.enviroterm.com

NORTHERN OFFICE

5112, Jalan Capri,
Taman Capri,
12100 Butterworth,
Pulau Pinang, Malaysia.

T: +604 331 1371
F: +604 331 1373
E: sales@enviroterm.com
W: www.enviroterm.com

SOUTHERN OFFICE

37-1, Jalan Setia Tropika,
Taman Setia Tropika 1/25,
81200 Johor Bahru,
Johor D.T., Malaysia.

T: +607 236 2768
F: +607 236 2769
E: sales@enviroterm.com
W: www.enviroterm.com

