AirSentry® II Chlorides

Point-of-Use Ion Mobility Spectrometer (IMS)

The AirSentry II family of ion mobility spectrometers detect and alert users to small concentrations or changes in airborne levels of chlorides, acids, amines and ammonia-containing species. With parts-per-trillion (ppt) sensitivity, these point-of-use sensors provide fast response, increased detection selectivity and repeatable performance.

Combining Air Sentry II sensors with a central software platform allows for easy data acquisition and analysis. The AirSentry II family of sensors provide continuous actionable data, to enable efficient response to contamination sources and events.

BENEFITS

- Continuous AMC monitoring of critical locations
- Robust and reliable data acquisition, control and analysis
- Long-term data stability
- Lowest cost-per-test

FEATURES

- High-sensitivity detection of Cl_2 and HCl
- Versatile product configuration for point-of-use, multi-point and mobile monitoring applications
- Compact size allows placement in any location
- Ethernet, RS-232, 4-20 mA outputs

APPLICATIONS

- Real-time corrosion monitoring within etch process locations
- Real-time Cl_2 and HCl monitoring within critical etching systems
- Quantification of chemical filter efficiency
- Tracking and troubleshooting of contamination sources throughout cleanroom and in process tools

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Without measurement there is no control

Contaminants detected	Chlorides: Cl_2 and HCl
Range	0 – 50 ppb_v
Sample flow	< 500 cc/min
LDL (3σ)*	200 ppt_v
Response time	< 1 min to 95% (Dry Cl_2)
Cleardown time	< 1 min to 5% (Dry CDA)
Temperature range	Operating: 59 – 86 °F (15 – 30 °C) Storage: - 40 – 122 °F (- 40 – 50 °C)
Humidity range	Operating: 30 – 60% RH Storage: 0 – 90% RH
Dimensions (H x W x L)	4 x 9 x 12 in (10 x 23 x 31 cm)
Weight	5 lb (2.3 kg)

* 5 minute sample averaging, 760 Torr

Utility Requirements

Power	100 – 240 VAC (50/60 Hz), 60 W
Clean Dry Air (CDA)	1000 cc/min, < - 76 °F (- 60 °C) dew point, 5 psig precision regulated, no particles > 50 µm, hydrocarbon free
Vacuum	< 33 kPa (absolute)

Communication

Data output	Ethernet (to Facility Net software), RS-232 (to HyperTerminal), 4-20 mA
User interface	4 LEDs, 2 buttons (Zero/Span Calibration)

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