

AirSentry® II

Calibration Station



Particle Measuring Systems' Calibration Station provides an accurate gas-phase standard for calibration of ion mobility spectrometers (IMS) or other gas analyzers. Using a NIST traceable permeation device, the calibration station reliably delivers known concentrations of a calibration gas to an AirSentry® II IMS analyzer. At a known and constant temperature, NIST traceable permeation devices output a constant gas concentration for a given compound. Temperature, pressure, and flow control within the calibration station are all precisely maintained to ensure an accurate calibration, which translates to analyzer detection results you can count on.

The calibration station has been designed to generate both a "zero" and "span" calibration standard. While zero calibration is performed using a source of clean-dry air (CDA), span calibration is accomplished using chemically filtered ambient air for dilution, which better simulates actual humidified ambient sampling conditions. Combining this dilution stream with a concentrated gas stream from a NIST traceable permeation device generates an accurate span calibration stream. At any given time, either the zero or span streams can be sent to the analyzer for calibration.

BENEFITS

- Generates accurate gas-phase calibration standards
- Single calibration source ensures analyzer-to-analyzer matching
- Humidified calibration points simulate ambient environments
- Minimal service requirements

APPLICATIONS

- Use during 12-month calibration of AirSentry II monitor
- Create single digit part-per-billion (ppb) gas standards with additional CDA flow
- Verify accuracy of AMC monitoring equipment, or chemical lab standards
- Create low concentration gas standards to challenge chemical filters

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specifications

Utility Requirements:

Power	100 to 250 VAC (50/60 Hz)
Clean Dry Air (CDA)	5 LPM Clean Dry Air (CDA), 10 psig, -60°C dew point, oil-free and particulate-free
Temperature range	15 to 30°C (Operating), -40 to 50°C (Storage)
Humidity range	30 to 60% (Ambient Operation), 0 to 90% (Storage)
Dilution flow range	0 to 3.5 LPM
Temperature control	0.5°C
Dimensions (w, l, h)	14.25 x 16.25 x 4.5 in. (36.25 x 41.3 x 11.5 cm)
Weight	12.3 lbs. (5.6 kg)

AirSentry® is a registered trademark of Particle Measuring Systems, Inc.
Patents pending.
Particle Measuring Systems, Inc. reserves the right to change specifications without notice.



Registration applies to the Boulder, Colorado facility.

AUTHORIZED REPRESENTATIVE



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