

# AirSentry® II

## Calibration Station



Particle Measuring Systems' AirSentry II Calibration Station provides an accurate gas-phase standard for calibration of ion mobility spectrometers (IMS) or other gas analyzers. 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 a "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 better simulate ambient environments
- Minimal service requirements

### APPLICATIONS

- Use during annual calibration of AirSentry II monitors
- 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 to evaluate filter lifetime



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### specifications

Calibration compounds	Acids, Ammonia, Chlorine, HF, SO <sub>2</sub>
Power	100 – 250 VAC (50/60 Hz)
Clean Dry Air (CDA)	5 LPM Clean Dry Air (CDA), 10 psig, - 60°C dew point, no particles > 50 µm, hydrocarbon-free
Temperature range	15 – 30°C (Operating), - 40 – 50°C (Storage)
Humidity range	30 – 60% (Ambient Operation), 0 to 90% (Storage)
Dilution flow range	0 – 3.5 LPM
Temperature control	± 0.5 °C
Dimensions (w, l, h)	14 x 16 x 4 in (36 x 41 x 11 cm)
Weight	12.3 lb (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.

### AUTHORIZED REPRESENTATIVE



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