

# Exclusive Sensor Exchange Program & Calibration Service



All gas sensors require calibration at regular intervals to ensure they function correctly, and the reading output is accurate. Unless your facility diligently tracks when each monitor sensor is due for calibration, this critical task falls through the cracks. Additionally, sterilant gases such as Peracetic Acid, Hydrogen Peroxide and Ethylene Oxide are highly reactive making sensor calibration more difficult.

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## Calibration Tracking Service

With ChemDAQ's Sensor Exchange Program, we take on the responsibility of tracking your calibration status. When your sensors are due to be calibrated, the ChemDAQ team notifies you and ships freshly calibrated sensors with a pre-paid return shipping label. You simply swap the sensors and return the old ones to ChemDAQ for reprocessing.

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## Performance Verified & Guaranteed

Each time a sensor is calibrated by ChemDAQ, its performance is verified. If the sensor does not pass calibration parameters, it is withdrawn from service and flagged for failure analysis under our Quality System. If a sensor is found to be subpar, it will be replaced by ChemDAQ. If a sensor were ever to fail between calibrations, simply contact ChemDAQ to get a replacement at no charge.



# Factory Calibration Procedure

To ensure calibration is done properly, ChemDAQ uses factory calibration on all sensors. Here's our procedure so you don't have to wear a fume hood and handle the gases yourself.

- Sensor is exposed to zero air and span gas, which is test gas containing the target gas
- The sensor's output is tracked using a custom designed computer Data Acquisition System
- The system measures sensitivity, response time, battery charge, and many other parameters
- Calibration parameters are calculated and automatically written to the EEPROM memory in the sensor module
- Calibration records are stored in a database for full traceability, including the lot number of the test gas and batch numbers of the chemical filters

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## Test Gases

Some of the calibration gases used by ChemDAQ come from specialty gas suppliers. Each gas cylinder includes an expiration date, and the gas mixtures are analyzed and certified to be a specific concentration prior to use. For Peracetic Acid, pre-packaged cylinders of test gas are not available, so the calibration gases are generated in-house and then analyzed.

For more information or questions regarding ChemDAQ's Sensor Exchange Program, calibration process or sensor usage plan, contact ChemDAQ.

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## Ease of Use

ChemDAQ does all the work, so your sensor is ready to use almost immediately after installation. Each sensor includes an EEPROM containing the calibration data, a battery, and analogue circuitry to keep the sensor on bias.



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