

CASE STUDY: Saving Time and Money - Stack Testing with the Environics' Series 4040

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Alliance
TECHNICAL GROUP



Overview

Alliance Technical Group was founded in 2000 in Alabama as a small stack testing company and has since expanded into a full-service environmental compliance provider and a recognized leader in the North American market. With over 110 mobile laboratories and 60 offices, they needed to streamline their process, boost precision and prevent costly delays. Recognizing Environics' expertise in reliable gas delivery systems, they partnered with us to implement the Series 4040 - a flexible, scalable solution that has delivered over 15 years of continuous performance.

The Challenge

The client needed a flexible and scalable gas dilution system to:

- Accurately calibrate across a wide concentration range (percent to ppm)
- Reduce the number of gas cylinders required both in the lab and in the field
- Ensure minimal downtime
- Guarantee traceable, repeatable results
- Simplify training with a standardized system

The Solution

The client Environics' Series 4040 systems across their locations, enabling simple, cost-effective, and high-precision calibration.

Key Features:

- **High Accuracy & Repeatability:** $\pm 1.0\%$ of set point for concentration and $\pm 0.05\%$ full-scale repeatability, even with dynamic concentration ranges.
- **Wide Dilution Range:** An expanded dilution range significantly reduced the number of cylinders required to just three.
- **Support:** Knowledgeable and responsive support helped to reduce possible downtime with quick resolution to questions.

The Impact

- **Long-Term Stability:** Over 14 years, the Alliance fleet of over 125 units has provided exceptional reliability and durability, with low upkeep/maintenance costs.
- **Significant Cost Savings:** Only three, higher concentration cylinders to cover the entire required range of dilutions.
- **Minimal Downtime:** Quick and reliable support reduced possible downtime.



“As a full service emissions testing provider, we rely on quality components & Environics has come through time and again with top shelf gas dividers and prompt customer service that we can depend on.”

- Kyle Vaughn, Sr Project Manager

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