WASSON·ECE
INSTRUMENTATION
Engineered Solutions, Guaranteed Results.

New! SAS100

Single Cylinder Auto-sampler for Gas Samples

Maximum accuracy for gas samples in cylinders

In the world of gas chromatography, most gas samples need heat to force any analytes that would otherwise stick to the inside of the sample cylinder back into the gas phase. This heat greatly improves the accuracy of subsequent analyses by returning to the sample analytes that, without the heat, would be underreported.

Wasson-ECE Instrumentation is the world leader in providing guaranteed analytical gas chromatography solutions with over 35 years of experience and instruments located in over 70 countries.

Our Mission

At Wasson-ECE we partner with our clients to improve products and overcome technical challenges. We do this by providing the highest quality analytical instrumentation and support. We are committed to solving problems and acting in the best interest of our clients.

Wasson-ECE Hardware Warranty

Once in the field, our systems are supported by our knowledgeable service engineers. Our one-year hardware warranty covers all Agilent and Wasson-ECE hardware on the GC. If anything fails during the first year, we will replace it free of charge. Additionally, we offer a range of service contracts to meet our client's needs and assure the best performance of our systems for years to come.

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SAS100 Single Cylinder Auto-sampler

Automation plus analytical accuracy for gas samples

Analytical Accuracy in Gas Analysis

by Gas Chromatography

Gas chromatography is a powerful analytical tool that is used quite often to quantitate the components in various gas samples. This is especially true in the hydrocarbon processing industry. Refineries and chemical plants, as well as natural gas processing facilities, are the main constituents in HPI, and their laboratories are committed to analytical accuracy.

Accuracy in gas sample analysis is not a trivial matter. Gas samples can include components that have significant molecular weight, are in the sample at pressure and mole fraction that push them in the direction of condensing in the sample vessel or just adhering to vessel walls. In either case, components that condense in the sample vessel, or adhere to vessel walls, are underrepresented in subsequent analysis. These components are reported in lower concentrations than what they should be.

Analytical accuracy requires these heavier components to be fairly accounted for in the sample. Heating these heavier components reverses any condensation, extracts them from vessel walls, and returns them to the gas phase so they can be measured accurately.

The Single Cylinder Auto-Sampler is designed to work with gas chromatographs that measure gas samples, and it injects these gas samples via an automated gas sample valve. The user sets the temperature to heat the sample – usually contained in a steel cylinder under pressure – and the time to bake the sample cylinder. The user then places the sample cylinder in the oven, makes the tubing connection, and starts the sampler.

The sampler heats the sample at the prescribed temperature, waits for the prescribed bake time, then purges the sample through the GC's gas sample valve – or valves – stops the flow in order to equilibrate the sample to atmospheric pressure, then queues the GC to Prep-Run, and then triggers the GC via Remote Start Input.

The SAS100 works with any GC that has a heated gas sample valve and Remote Start Input

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