Multiple Gas Analyzer + Sulfur GC Systems

MG#1 + Sulfur GC

Valve

Columns

TCD

FID & Methanizer

FID/FPD

Loop

On-Column Injector
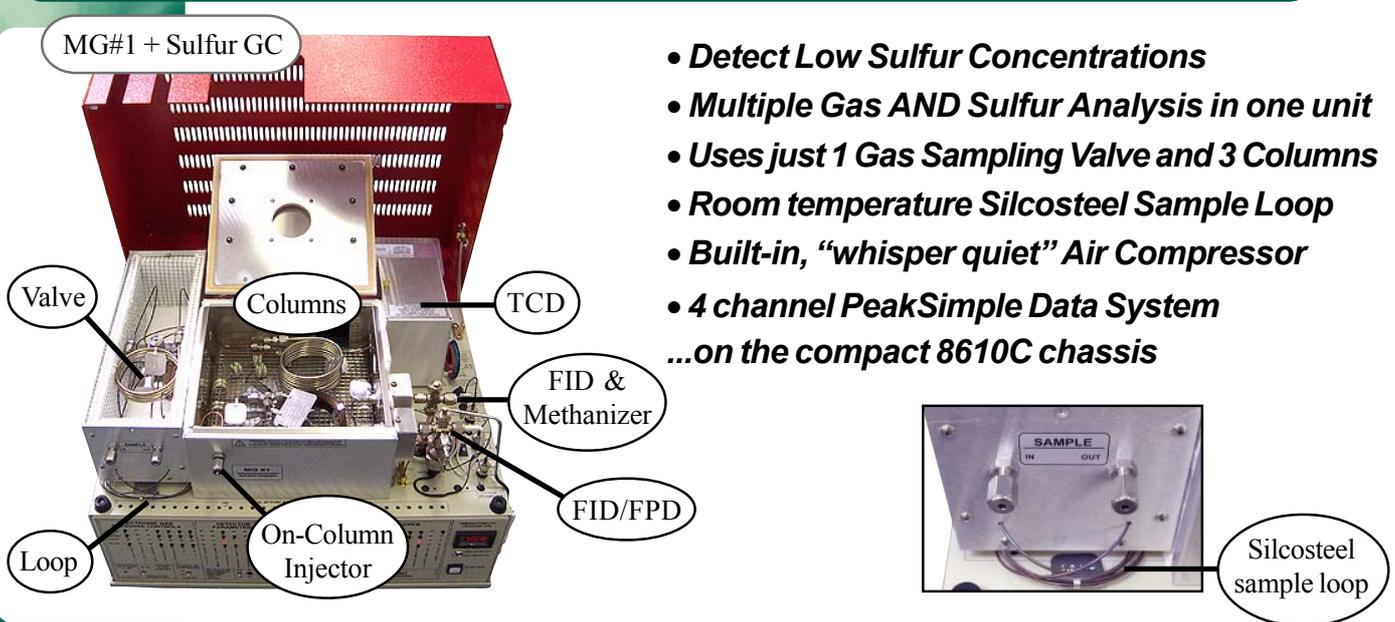
- *Detect Low Sulfur Concentrations*
- *Multiple Gas AND Sulfur Analysis in one unit*
- *Uses just 1 Gas Sampling Valve and 3 Columns*
- *Room temperature Silcosteel Sample Loop*
- *Built-in, "whisper quiet" Air Compressor*
- *4 channel PeakSimple Data System*
...on the compact 8610C chassis

SAMPLE
IN   OUT

Silcosteel sample loop

Many analysts require natural gas analysis for BTU value calculations or drilling and mudlogging applications. Frequently, sulfur compounds are also of interest.

Because low sulfur concentrations (<50ppm) are difficult to measure, SRI has enhanced our popular Multiple Gas Analyzer GCs to simultaneously monitor low levels of sulfur compounds. The additional hardware required is an FPD/FID detector, which selectively detects sulfur down to mid-ppb range, and a room temperature Silcosteel sample loop.

One reason sulfur is so difficult to measure is that it disappears on contact with hot stainless steel surfaces; even limited contact with a hot stainless steel sample loop will destroy any sulfur in the gas sample. Our solution is to use a Silcosteel-lined transfer line leading to a splitter, and a 60-meter thick film capillary column. While Teflon columns are sometimes also used for sulfur analysis, the natural gas analysis (using MoleSieve and SilicaGel) requires column temperatures of 250°C or higher. Since the sulfur column is located in the same column oven, it is essential to use a column like the 60-meter capillary which can tolerate the higher temperatures.

8610-0073	Multiple Gas Analyzer #1 + Sulfur GC with TCD, FID, and FPD/FID detectors, methanizer, built-in air compressor, 3 columns, and Silcosteel sample loop
8610-0273	Multiple Gas Analyzer #2 + Sulfur GC with TCD, FID-methanizer, and FPD/FID detectors, built-in air compressor, 3 columns, and Silcosteel sample loop

OPTIONS & UPGRADES: 6 channel USB PeakSimple Data System, Split/Splitless and PTV injectors, additional column(s), Gas Sampling Valve, Thermal Desorber
(VOLTAGE: for 110VAC, use "part number-1" [ex: 8610-0073-1] for 220VAC, use "part number-2")

Pre-Configured GC Systems