

**Sulfur
Specific
Chromatograph**

C.I. Model 2020L Chemi

Our Performance-Proven Sulfur Specific Chromatograph for Gases and Volatile Liquids

Accurate & Reliable
Equimolar Response
Automated Calibration

Based Upon ASTM D5623-94
Low ppb Level Detection With Ease
Full-Range Service & Support

Solutions for Sulfur Measurement

Turn-Key Applications

1. Detection of species sulfur in natural gas samples
2. Detection of species sulfur in liquid hydrocarbons like sulfur and diesel
3. Detection of H₂S, COS, and mercaptans in beverage grade carbon dioxide or other gases
4. Low ppb level detection of light sulfur gases (COS, H₂S) in polymer grade ethylene and propylene

The **C.I. Model 2020L Chemi Sulfur Specific Analyzer** offers unsurpassed sensitivity for the measurement of total or speciated sulfur in gaseous samples. Designed for complete versatility, the 2020L Chemi can be used in the laboratory or remote locations for off-line, at-line or on-line process applications. For simplified reporting, the specially designed software automatically collects and summarizes the analytical results.

The 2020L Chemi's modular design, which includes the gas-sampling hardware, temperature-programmable oven and computerized user interface, allows for straightforward and inexpensive maintenance.

APPLICATIONS:

Natural and LP Gas Odorants: The 2020L Chemi detects and quantifies both naturally occurring sulfur compounds and odorants in lab or field locations such as compressor stations and odorant pumps.

Refinery, Petrochemical Gases: The 2020L Chemi provides accurate analysis of total sulfur, speciated sulfur, or both, without interferences from hydrocarbons, in labs, at-line or on-line process applications from many gaseous streams.

Specialty Gases: The 2020L Chemi determines total sulfur or speciated trace sulfur in a variety of gases, such as hydrogen, nitrogen, and beverage grade CO₂.

TYPICAL SPECIFICATIONS

Detection Technique:	Dynamic Combustion Technique, followed by reduced pressure chemiluminescence with detection by a state-of-the-art Sulfur Chemiluminescence Detector (SCD)
Range:	Light Hydrocarbons: 1 to 5000 ppb Hydrocarbon Liquids: 10 to 5000 ppb
Accuracy:	± 10%
Repeatability:	± 20% at 1-100 ppb ± 10% at 0.2-1 ppm ± 5% at 1 ppm or higher
GC Oven Range:	Ambient to 350°C
GC Oven Temperature Ramps:	3 Ramps available
Species Sulfur:	All sulfur species that can be separated by megabore capillary column and/or packed columns. Software to calibrate and quantify individual peaks is also available.
Sample Injection:	One fully automated gas-sampling valve and one direct, easily accessible, syringe injection port.
Zero Drift:	Negligible drift
Temperature Range:	Laboratory Environment only
Instrument Control:	All instrument controls are fully automated. The modular design allows for easy operation and maintenance.
Signal Processing:	Any standard integrator
Automatic Regeneration:	Helps maintain sensitivity, prevents coke build-up
Power:	20 Amps at 100/120 VAC, 50/60 Hz 10 Amps at 220/240 VAC, 50/60 Hz
Weight:	250 lbs.
Dimensions:	21" (H) x 26.5" (W) x 20" (D) (53 x 63 x 50 cm)
Data Acquisition:	Complete external computer with flat screen, including Microsoft Windows XP-based proprietary software, <i>ciSmart</i> , for data acquisition, storage, retrieval, and reporting.



C.I. Analytics

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