



Global
Analyser
Solutions



Light hydrocarbon analyser

CG400



- ASTM D2163, D2712, D2593, D2820, D4424, ISO 7941 and others
- Benchtop GC or fast CompactGC^{4.0}
- Modular injectors and detectors
- Expandable

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CG400v1

Light hydrocarbon analyser

Measurement of light hydrocarbons is of interest in reactors experiments, chemical plants, and many other applications. Accurate information on the concentration and distribution of hydrocarbons is crucial for production, process control, research and development, and establishing the market value of finished products.

Principle of operation

Figure 1 illustrates the schematic diagram of the analysers. The gas sample is injected via an automatic six-port gas sampling valve (GSV) onto a suitable capillary column using a split/splitless injector (SSL), enabling the analysis of both gas and potential liquid samples. The separated components are detected using a flame ionisation detector (FID).

Instrument specification

- Thermo GC1600 with top mounted valve oven, gas sampling valve, iConnect SSL, capillary column and FID
- Runtime depending on column and analysed hydrocarbons
- Minimum detectability < 1 ppm
- Repeatability < 1%

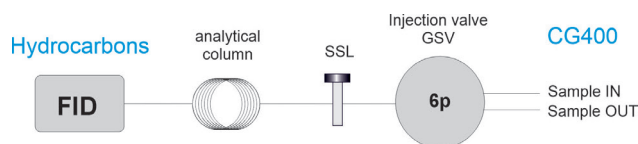


Figure 1 Diagram Light hydrocarbon analyser on GC1600, equipped with split/splitless injector

Results

Figure 2 shows example chromatograms of the Light hydrocarbon analyser

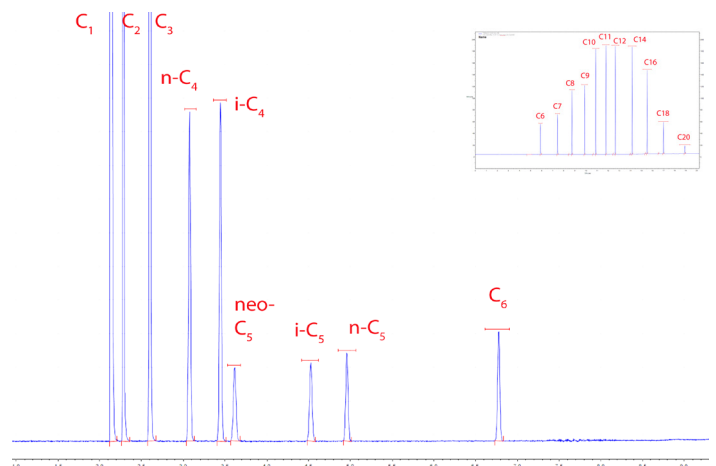


Figure 2 Light hydrocarbon analysis C₁- C₂₀. Column: Rtx-1. FID detection

Ordering information	CG40X - ABCDE			
code X	0	1	2	3
GC model, power	1600, 230V	1610, 230V	1600, 115V	1610, 115V

For the selection of options (e.g. Valve type and passivation, Pump and vacuum sampling, Rotameter and sample connections, Pressure and moisture sensors, Hydrogen sensor for safety shut-off, GC oven cryo valves, Power plug type and more), [see the options table in the order guide.](#)

About GAS

Global Analyser Solutions provides GC & GC-MS solutions for Energy, Refinery, Chemical and Environmental markets. Our analysers address a broad spectrum of measuring requirements with high precision and reliability. Please reach out for more information on our website. www.gassite.com