



INSTRUMENTS
ANALYTICAL SOLUTIONS

R490 MICROGC GAS ANALYZER IN 19-INCH RACK

Designed for industrial applications

The needs of industry are not those of the laboratory. To adapt to the environment of a control room or production unit, SRA Instruments proposes a 19-inch rack-mounted MicroGC.

The analyzer can be configured as required with the same modularity and ease of replacement as the standard MicroGC range.

In its rack-mountable version, the MicroGC can integrate several analytical modules, customized sampling systems, alarm contacts, optional analog or digital data transmission and can be remotely controlled from a master computer.

Several accessories can be added on the rear panel, such as filter elements, flowmeter or stream selector.

The R490 MicroGC is controlled by Soprane II software.

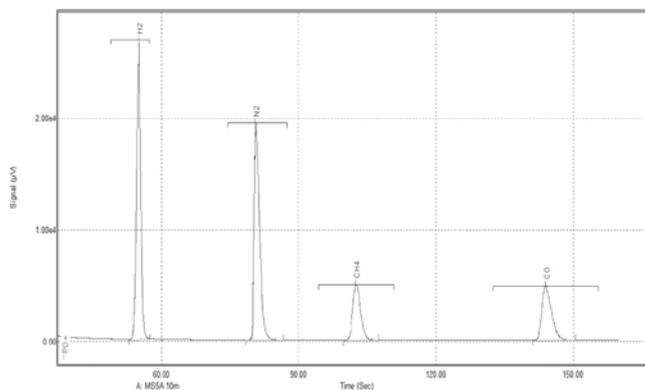


R490 MicroGC SRA Instruments

Soprane II software



Main page of Soprane II software



Example of separation on Molsieve column

This dedicated MicroGC software, developed by SRA Instruments, allows you to extend the possibilities of your instrument by programming analysis sequences, managing several

flows, monitoring trends and automatically performing specific calculations.

<p>Application fields:</p> <p>Natural and refinery gas Syngas Fuel cell</p> <p>Permanent gases Hydrocarbons Catalysis, fermentation process <i>etc.</i></p>	x3 Modular	Upgradeable	Fast
	Automation	Integration in cabinet	Custom sampling capabilities

R490 MICROGC

Technical specifications

General specifications

2 models available:

Dimensions (mm): W 467 (482) (19"); H 177 (4U); D 436

Weight: 6.5 kg with 2 modules

Dimensions (mm): W 482 (19"); H 225 (5U); D 464

Weight: 9 kg with 3 modules

Environmental conditions

Operating temperature: 0 °C to 50 °C

Relative humidity: 0 to 95 % non-condensing

Altitude: up to 2000 m max.

Use: indoor or enclosed

Utilities

Power supply input: 220 - 240 VAC, 50 to 60 Hz

Power consumption: 10 A max.

Carrier gas: 1 or 2 carrier gas at 5.5 bar

Carrier gas type: Helium, Argon, Nitrogen, Hydrogen

Carrier gas consumption: 10 mL/min/module

Carrier gas purity: 99.9996 % minimum

Sampling

Sample: gas or vapour samples only

Sample pressure: ATM to 14.5 psi max (1 bar).

Sampling pump: up to 2 independent sampling pumps

Stream selector (option): up to 4 electrovalves.
Optional driving of external pump.

Other conditions on demand, contact us.

Chromatographic specifications

Injector type: micro-machined injector with no moving parts; variable volume; optional heated injector and backflush capability

Injection volume: 1 to 10 µL, software selectable.

Column: capillary from 200 µm to 320 µm, stationary phase depending on the application.

Column temperature: isothermal, from ambient +15 °C to 180 °C.

Detector: micro-machined thermal conductivity detector (µTCD) using Wheatstone bridge design (internal volume 200 nL).

Linear dynamic range: 10⁶ for most of the compounds

Repeatability: variable volume <0,5 RSD % at constant pressure and temperature.

Communication

Ethernet: RJ45 on the back panel.

I/O

Output: configurable relay outputs.

Optional analog signals: 4 - 20 mA inputs/outputs.

Digital inputs: 0 - 10 V, external start or sampling default (optional), etc.

Driving software

Acquisition and processing software: Soprane II, french, english.

Operating system: Windows 7 - 32/64bits or higher.

Modbus (Ethernet/RS): configurable.

Specific calculation

Option: NGA/RGA ISO-6976, LPG ISO 8973/7941/6578, combustion gas, customized

Applications

Compounds analysed: permanents gases (He, H₂, O₂, N₂); hydrocarbons C₁ to C₁₀, H₂S, CO₂, CO, COS, N₂O, mercaptans, VOC, BTEX, etc.

Application fields: natural gas, refinery gas, fuel cell, catalysis, biogas, fermentation process, process gas, etc.



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