



Premier Solutions Partner

BIOGAS, BIOMETHANE and NATURAL GAS ANALYZER

GAS CHROMATOGRAPHY experts at the service of renewable sources

Our Analyzers everywhere you need



On-line Biomethane Micro-GC Rack Analyzer Metrological Certification LNE-35372

- A powerful gas-chromatographic solution for biomethane analysis:
- Compositional (N_2 , O_2 , H_2 , CO, CO₂, CH_4 , C_2H_6 , C_3H_8)
- Measurement of Calorific Values
- Odorants (THT, TBM)
- Impurities (H₂S, COS, Terpenes, Ketones)
- Complies with OIML R140:2007
- One year instrument response stability

On-line Micro-GC Rack Analyzer

Composition of Biogas, Biomethane and Natural Gas

- H₂, O₂, N₂, CO, CO₂, H₂S, COS, C1 up to C10
- Measurement of CV, Wobbe, Density
- Monitoring of odorants
- Automatic stream selection
- Flexible in configuration for a cost effective solution
- Smart remote access to results



Micro-PGC Gas Analyzer ATEX Micro-gas chromatograph

Certified Ex II 2 G-Ex db IIC T5 Gb (LCIE 17 ATEX 3064 X)

- Hi-speed chromatography
- The modular design simplifies maintenance and reduces downtime
- Analysis of hydrocarbons, permanent gases and sulfur species
- Physical property calculations ISO 6976:2016
- Flexible configurations for Biogas, Biomethane, Natural Gas, H₂NG, LPG analysis

SOPRANE ||

SMART remote management of analyzers and results



SRA Instruments uses the proprietary Soprane platform to control the Micro-Gas chromatographs in a simple, powerful and modern software architecture

- Essential and Micro-GC dedicated chromatographic software
- Remote Micro-GC diagnostic and connection
- Combine results from external analyzers in a single platform
- SMART access to results on WEB page
- Sampling: automatic selection of sampling line and calibration
- Automation: Schedule a sequence, calibration and bakeout
- Data transfer: Modbus, External 1/0, LabVIEW, LIMS ...
- Specific calculation: Natural gas, LPG, combustion, USP pharmacopeia...

A Partnership of Excellence

From gas production to process treatment and upgrading to distribution, **SRA Instruments** is your Partner to study, configure and supply an analytical **Micro-GC** equipment for your best efficiency and safety

Flexibility is our strength



Specifications

	Rack model 5U	ExProof model
Dimensions mm (H x D x W)	225 x 464 x 482	500 (1060 with bracket) x 262 x 465
Weight	10 Kg	45 Kg (80 Kg with bracket)
Carrier Gas	He, H ₂ , N ₂ or Ar, 550 ± 10 KPa (80 ± 1.5 psi) input. Purity 99.9995% minimum. Up to two different types of carrier gas can be used in one instrument Inlet connections 1/8" OD stainless steel compression fitting (Swagelock) Typical carrier gas consumption 8 ml/min	
Environmental conditions	Temperature: 0 ℃ to 50 ℃	
Power requirements	Main power 220-240 VAC, 50-60 Hz Power consumption 10 A max, 130 W max	
Classification and certifications	To be installed in safe area Metrology certification LNE - 35372 for Biomethane energy determination	Conforms to ATEX Directive 2014/34/UE and EMC norms EN 61000 and EN 61326-1 Area Classification Ex II 2 G - Ex db IIC T5 Gb
Sampling	Only gas or vapour samples Pressure: from atm to 14.5 psi max (1 bar rel) Sampling pump: up to 2 independent sampling pump. Depending on application Stream selector (optional): by electrovalves or VICI Valco valve Auxiliary sampling pump (optional)	
Chromatographic specifications	Injector type: micro-machined injector without moving parts Variable volume heated injector Injection volume: 1 to 10 µL, software selectable Column: capillary fused silica column from 150 µm to 320 µm Column temperature: isothermal operation, ambient +15 °C to 180 °C Detector: micro-machined thermal condutivity detector (µTCD) Linear dinamic range 10 ⁶ for most of compounds Repeatability <0.5 % RSD for propane at 1 mol % level for WCOT column Detection limit: 0.5 ppm for WCOT column, 2 ppm for PLOT columns	
Communication	Ethernet with internal embedded computer Transmission data with Modbus (RS485 and TCP/IP) fully configurable Analog 4-20 mA output and signal input from external analyzer	
Driving software	Acquisition and processing software: SRA Soprane, french, english. Operating system: Windows 10 Pro Specific calculations: NGA ISO 6976:2016, LPG ISO 8973/7941/6578, combustion gas, customized	
Applications	Fixed gases (He, H ₂ , O ₂ , N ₂), CO, CO ₂ , hydrocarbons C1-C10, H ₂ S, COS, mercapthanes, BTX, etc. Application fields: Natural Gas, Biogas, Biomethane, Refining Gas, Fuel Cells, Catalysis, Process gas, etc	



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