



Multi-component Analyser

MGC 16

Flow computers

Measuring Systems

Remote Terminal Unit

Analysis system

The MGC 16 is a new generation analyser for the analysis of all types of gas compounds.

In its THT application, the MGC 16 analyses all the required components while limiting the gas consumption to carry out the measurements. Its embedded website allows user-friendly operation without software or specific license.

Very low gas consumption

Thanks to its innovative concept with no cold spots and the measurement of all the required component in a single analyser, the MGC 16 allows an exceptionally low gas consumption of 1-2 ml / min as well as a consumption of carrier gas from 2-4 ml / min.

Scalable configuration with low maintenance

The MGC 16 offers a modular global solution for scalable on-site configuration. The MGC 16 allows maintenance at low cost (possible replacement of columns, TCD, injector ...). The maintenance center of the analyser is based in France.



Technical data - Analyser THT MGC 16

Model		MGC 16 THT
Applications	Gas odor control, biomethane station, hydrogen injection station	
Functions	Measurement acquisition, calculation, alarm management, monitoring of Analog and logic input / output status, secure recording, PLC and supervisory communication, remote and wireless server	
Calculated values	Unit conversions averages	
Inputs/Outputs	1 DI, 2 AO, 1 AI, 2 RJ45, 1 RS485, USB, maintenance button Other I/O possible on request	
Display	Optional touch display HMI via embedded web server (unlicensed)	
Enclosure	Frame : 1 - 5 modules Dimensions : 47,5 cm (P) x 43,2 cm (L) x 44 cm (H) Weight < 20 kg	
Process gas connection	Fluid : 1/8 OD, et 1/16 OD Electrical: removable screw terminal blocks	
Component	Module	Low limit of quantification
	THT	UM4
Communication	2 x Ethernet TCP/IP Modbus 1 RS485 dedicated to the communication with Modbus master (SM@RT U, others.)	
Pressure and sample gas consumption	0.5 to 1 relative bar. 5 ml per injection, ie 1-2 ml / min	
Carrier gas	He (from 2-4 ml) of minimum quality 5.5. Recommended 6.0 for compounds to low grade. Pressure 4 bar	
Number of stream	Up to 16 channels with MGC 16-controlled rotary valve (via USB port)	
Repeatability	< 0,1% RSD for retention times RSD < 2 % at 4 ppm	
Linearity of the detector	10 ⁶	
Memorizing	On RAM saved: min, max average of% gross + THT mg / Nm ³	
Monthly registration	12 months	
Daily registration	30 days	
Hourly recording	7 days	
Event journal	500 events, 500 metrological alarms	
Analyzes	100 to 2000 analyzes on time files + 3 years of chromatograms	
Hourly and daily time averages	THT	
Languages	French, English, on request for other languages	
Operating conditions	Temperature	0 à 50°C
	Relative humidity	< 95% without condensation
Programming in column temperature	Column temperature : up to 250°C T° programming ° : 5°C/s max according to column Resolution : 0,1°C	
Power supply	Power supply 100-240 VAC, 50-60 Hz, 5 A	
Standards and recommendations used	ASTM D7833-14, ASTM D3588, GPA 2172, GPA 2145-09, GPA 2261-13, Dewpoint based on ISO 18453 and IGT Bulletin #8 methods	
Analysis time	< 2 minutes	

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