

# Multi-component Analyser THT



## 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 and installed in safe area (ATEX version zone 1 on request).

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	THT	0.9 ppm
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 < 1% RSD on peak areas for concentrations > = 0.1% < 2,5% RSD on peak areas for concentrations <= 0.1%		
Linearity of the detector	10°		
Memorizing	On RAM saved: min, max average of% gross + THT mg / Nm3		
	Monthly registration	12 months	
	Daily registration	30 days	
	Event journal	500 events	
	Hourly recording	7 days	
	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		
Analysis time	< 60 seconds		

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