GAS ANALYSER MAPY 4.0 for O_2 , CO_2 , He or O_2/CO_2



winner 2009

Analysing System for the monitoring of protective atmospheres in food packaging (MAP).

For continuous analysis (in-line) and also intermittent sampling via a needle e.g. from foodpacks. A flexible analyser to guarantee quality and productivity of production processes. Available as a single or double analyser for carbon dioxide, oxygen and helium.

Options

- fully automatic calibration
- software GASCONTROL CENTER for recording of results (see separate data sheet)
- plug set for external connection of signals
- model for higher inlet pressures
- bar code scanner for product names or user selection

Benefits

- minimum sample gas required for analysis of smallest volumes (e.g. food packaging) fast response time
- fast measuring results of sampling
- simple to operate via touch-screen
- reliable steady measuring results and high accuracy through pressure compensation
- simple calibration of sensor
- permanent monitoring of set limit values
- alarm signals are given if the set limits are exceeded and a potential free contact operates to e.g. auto-stop your machine to avoid quality problems

- easy to clean stainless steel housing for maximum hygiene, splash-proof
- USB connection for file transfer by USB memory stick
- Ethernet connection for network integration
- internal audible alarm
- measured data storage
- administration of product names
- user management for measurement personalisation

Equipment selection

Applications	Ana	lysis	Gases				
Food	Sampling	Continuous Analysis	0	CO ₂	05/C02	유	Type of equipment
•	•		•	•	•		MAPY 4.0 S ³⁾
•		•	•	•	•	•	MAPY 4.0 L 3)
•	•	•	•	•	•		MAPY 4.0 S+L ^{2) 3)}
•		•	•	•	•	•	MAPY 4.0 P 1)3)

¹⁾ without pump, with inlet pressure regulation

All versions also available with zirconia measuring cell for O_2 . Please add ${\bf Zr}$ to the model type. .





²⁾ with 2 chemical sensors for oxygen

³⁾ gases to be specified

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M	Measuring systems						
Gases		Measuring system	Measuring range	- Repeatability		Service life	
	O ₂ for sampling	chemical measuring cell	0-100%	± 0,2%	6 sec.	approx. 2 years in air	
	O ₂ for continuous analysis	chemical measuring cell	0-100%	± 0,2%	10 sec.	approx. 3 years in air	
optional	O ₂ for sampling and for continuous analysis	zirconia measuring cell	0-100%	± 0,1%	4 sec.	long lifetime	
opti	- O ₂ for sampling and for continuous analysis	paramagnetic measuring cell	adaptable please indicate	dependent on measuring range	5 sec.	long lifetime	
	CO ₂	infrared measuring cell	0-30% 0-100% please indicate	± 0,5%	6 sec.	long lifetime	
	He	thermal conductivity	0-30% 0-100%	± 0,2%	20 sec.	long lifetimer	
	116	thermat conductivity	please indicate	± 0,5%	20 Sec.		

Technical D	ata					
Туре		MAPY 4.0				
Gases		O_2 , CO_2 , He oder O_2/CO_2 not for flammable, corrosive or toxic gases!				
Temperature range (gas/environment)		0 °C to +40 °C (+32 °F to +104 °F)				
Gas connections						
Permanent measuring		lance, hose connection for PK 6/4 (exhaust) integrated measuring gas pump				
Sample measuring		needle (exhaust) integrated measuring gas pump				
Calibration (full automatic)		hose connection for PK 6/4				
Inlet pressure	e S-version	max. 0.3 barg				
	P-version	1.5 barg – 10 barg				
Calibration	Gas consumption	approx. 1 l/min				
	Calibration time	the real gas consumption for calibration is depending on installation.				
		optimal: 240 sec/calibration				
Alarm signals		2 potential free contacts for min. and max. settings (adjustable for each gas)				
Interfaces		RS 232 with ASCII-output of date, time, measured value				
		USB by memory stick for profiles, product and user data				
		RJ45 Ethernet FTP-Server for profiles, product and user data, software Update				
		analog output 4-20 mA or 0-10 V				
Housing		stainless steel, splash-proof				
Weight		approx. 7.2 kg				
Dimensions (I	HxWxD)	approx. 110 x 300 x 260 mm (approx. 4.33 x 11.81 x 10.24 inch)				
Voltage		230 V AC 50 / 60 Hz 110 V AC 50 / 60 Hz				
Power consumption		230 V AC / 0.12 A				
Approvals		Company certified according to ISO 9001 and ISO 22000				
		CE-marked according to: - EMC 2004/108/EC				
		- Low Voltage Directive 2006/95/EC				
		for food-grade gases according to: - Regulation (EC) No 1935/2004				
		Cleaned for Oxygen Service according to: - EIGA IGC Doc 13/12/E: Oxygen Pipeline and				
		Piping Systems				



