MFA4 - J01/C6 subject to change

GAS ANALYSER MAPY 4.0 for O₂, CO₂, He or O₂/CO₂







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 food packs. A flexible analyser to guarantee quality and productivity of production processes. Available as a single or double analyser for carbon dioxide, oxygen and helium.

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

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

Equipment selection

Applications	Analysis		Gases				
Food	Sampling	Continuous Analysis	0	CO ₂	02/CO ₂	He	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 ${\rm O}_2$. Please add ${\bf Zr}$ to the model type.

²⁾ with 2 chemical sensors for oxygen

 $^{^{3)}}$ gases to be specified

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Measuring systems

	Gases	Measuring system	Measuring range	Repeatability	Response time	Service life
optional	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
	O ₂ for sampling and for continuous analysis	zirconia measuring cell	0-100%	± 0.1%	4 sec.	long lifetime
	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 lifetime
		thermal conductivity	please indicate	± 0.5%	20 Sec.	

Type MAPY 4.0

Gases O₂, CO₂, He or O₂/CO₂ 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

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 (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