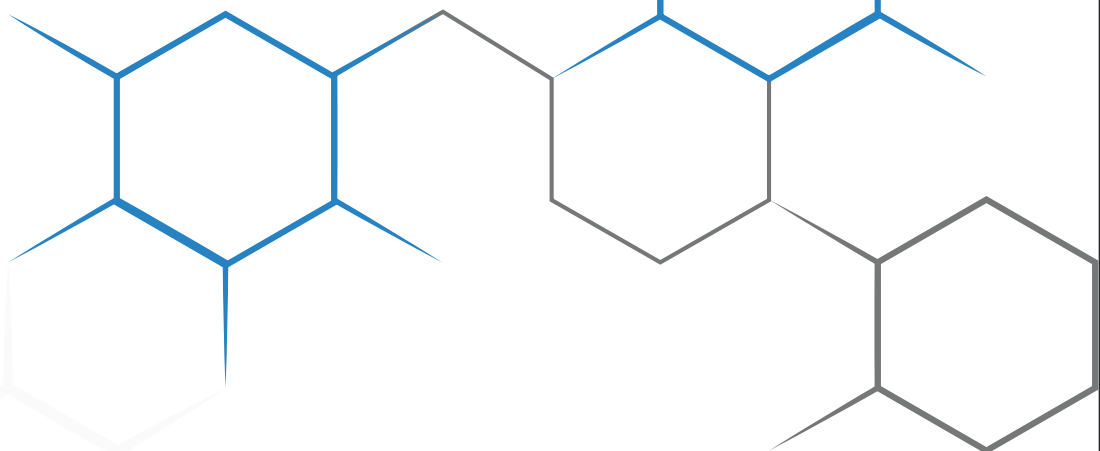


► **GAS ANALYSER**

MAPY 6.0



Made in Germany

Product of





reddot design award
winner 2009

Analysing System for the monitoring of protective atmospheres in food packaging (MAP). For continuous analysis (inline) 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 and oxygen.

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

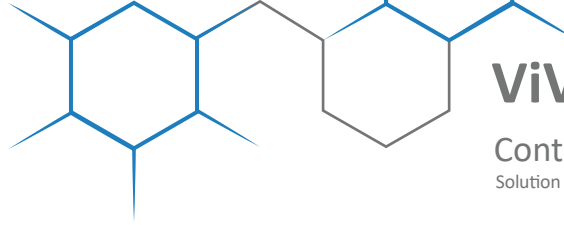
Applications	Analysis	Gases			Type of equipment
		O ₂	CO ₂	O ₂ /CO ₂	
Food	Sampling				
	Continuous Analysis				
•	•	•	•	•	MAPY 4.0 S ³⁾
•		•	•	•	MAPY 4.0 L ³⁾
•	•	•	•	•	MAPY 4.0 S+L ^{2) 3)}
•		•	•	•	MAPY 4.0 P ^{1) 3)}

1) without pump, with inlet pressure regulation

2) with 2 chemical sensors for oxygen

3) gases to be specified

All versions also available with zirconia measuring cell for O₂. Please add Zr to the model type.



Measuring systems

Gases		Measuring system	Measuring range	Repeatability	Response time	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
	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

Type	MAPY 4.0
Gases	O ₂ , CO ₂ or 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	
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 (HxWxD)	approx. 110 x 300 x 260 mm (approx. 4.33 x 11.81 x 10.24 inches)
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 2014/30/EU - Low Voltage Directive 2014/35/EU for food-grade gases according to: - Regulation (EC) No 1935/2004 Designed for Oxygen Service in accordance with EIGA 13/20 and CGA G-4.4: Oxygen Pipeline and Piping Systems Cleaned for Oxygen Service in accordance with EIGA 33/18 and CGA G-4.1: Cleaning of Equipment for Oxygen Servicestems

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Gas Control Equipment

- Gas Mixing Systems
- Gas Metering Systems
- Gas Analysers
- Gas Pressure Vessels
- Engineering Of Customised Systems

Asia Pacific

Level 16, The Pavilion Tower, Jalan Raja Chulan,
50200, Kuala Lumpur, Malaysia

Phone: +603 2182 9754-5

Fax: +603-2182 9797



Gas Safety Equipment

- Flashback Arrestors
- Non-return Valves
- Quick Couplings
- Safety Valves
- Stainless Steel Devices
- Gas Filters
- Pressure Regulators
- Lance Holders
- Ball Valves
- Automatic Hose Reels
- Test Equipment
- Accessories
- Customised Safety Devices

Europe

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M.A.P Equipment

- Gas Mixing Systems
- Gas Analyzers
- Leak Detection Systems
- Modified Atmosphere Packaging Solution

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