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

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			
Food	Sampling	Continuous Analysis	O_2	CO_2	O_2/CO_2	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
[2] with 2 chemical sensors for oxygen
[3] gases to be specified
All versions also available with zirconia measuring cell for O_2.
Please add **Zr** to the model type.

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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 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 2014/30/EU - Low Voltage Directive 2014/35/EU 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