

# GAS ANALYSER MAPY LE

for O<sub>2</sub>, CO<sub>2</sub> or O<sub>2</sub>/CO<sub>2</sub>



**Analysing System for the monitoring of gas concentrations at a variety of industrial applications. For continuous analysis (in-line) and also intermittent sampling via a needle (option) e.g. from food packs.**

**The analysis reduced to the essentials for a lean workflow. Available as a single or double analyser for oxygen and carbon dioxide.**

### Benefits

- minimum sample gas required for analysing of smallest volumes (e.g. food packaging)
- fast measuring results of sampling (option)
- 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
- data transfer via USB port
- integration into networks by Ethernet connection
- internal audio alarm
- data logging

### Options

- fully automatic calibration
- sample needle
- GASCONTROL CENTER-Software for recording of results (see separate spec. sheet)

- separate table printer for instant documentation
- line recorder for recording measuring results development
- model for higher inlet pressures
- various Ethernet cable
- heater and thermostat for chemical measuring cell
- monitoring by web browser
- messaging via e-mail on alarm

### Equipment selection

Analysis		Gases			Type of equipment
Sampling (option)	Continuous Analysis	O <sub>2</sub>	CO <sub>2</sub>	O <sub>2</sub> /CO <sub>2</sub>	
•		•	•	•	MAPY LE S <sup>3)</sup>
	•	•	•	•	MAPY LE L <sup>3)</sup>
•	•	•	•	•	MAPY LE S+L <sup>2)3)</sup>
	•	•	•	•	MAPY LE P <sup>1)3)</sup>

<sup>1)</sup> without pump, with inlet pressure regulation

<sup>2)</sup> with 2 chemical sensors for oxygen

<sup>3)</sup> gases to be specified

All versions available with cerionia measuring cell for O<sub>2</sub>. Please complete your type of equipment with Zr.

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## Measuring systems

Gases	Measuring system	Measuring range	Repeatability	Response time	Service life
O <sub>2</sub> for sampling	chemical measuring cell	0-100%	± 0.2%	6 sec.	approx. 2 y. in air
O <sub>2</sub> for continuous analysis	chemical measuring cell	0-100%	± 0.2%	10 sec.	approx. 3 y. in air
optional O <sub>2</sub> for sampling and for continuous analysis	zirconia measuring cell	0-100%	± 0.1%	4 sec.	long lifetime
	paramagnetic measuring cell	adaptable please indicate	dependent on measuring range	5 sec.	long lifetime
CO <sub>2</sub>	infrared measuring cell	0-30% 0-100% please indicate	± 0.5%	6 sec.	long lifetime

<b>Type</b>	MAPY LE
<b>Gases</b>	O <sub>2</sub> , CO <sub>2</sub> or O <sub>2</sub> /CO <sub>2</sub> not for flammable, corrosive or toxic gases!
<b>Temperature (gas/environment)</b>	0 °C to +40 °C (+32 °F to +104 °F)
<b>Gas connections</b>	
<b>Permanent measuring</b>	lance, hose connection for PK 6/4 (exhaust) integrated measuring gas pump
<b>Sample measuring</b>	needle (exhaust) integrated measuring gas pump
<b>Calibration (full automatic)</b>	hose connection for PK 6/4
<b>Inlet pressure</b>	
<b>S-version</b>	max. 0.3 barg
<b>P-version</b>	1.5 barg – 10 barg
<b>Calibration via lance</b>	
<b>Gas consumption</b>	approx. 1 l/min the real gas consumption for calibration is depending on installation. optimal: 240 sec/calibration
<b>Alarm contacts</b>	2 potential free contacts for min. and max. settings (adjustable for each gas)
<b>Interfaces</b>	RS 232 with ASCII-output of date, time, measured value USB by memory stick for software Update RJ45 Ethernet FTP-Server for software Update analog output 4-20 mA or 0-10 V
<b>Languages</b>	multilingual
<b>Housing</b>	stainless steel, IP 54
<b>Weight</b>	approx. 15 kg
<b>Dimensions (HxWxD)</b>	approx. 225 x 325 x 470 mm (8.86 x 12.80 x 18.50 inch) (without connections)
<b>Voltage</b>	230 V AC 50 / 60 Hz 110 V AC 50 / 60 Hz
<b>Power consumption</b>	230 V AC / 0.12 A
<b>Approvals</b>	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