

GAS ANALYSER MAPY LE

for O₂, CO₂ or O₂/CO₂



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

- 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

Options

- fully automatic calibration
- sample needle
- separate table printer for instant documentation
- line recorder for recording measuring results development

Equipment selection

Analysis		Gases			Type of equipment
Sampling (option)	Continuous Analysis	O ₂	CO ₂	O ₂ /CO ₂	
•		•	•	•	MAPY LE S ³⁾
	•	•	•	•	MAPY LE L ³⁾
•	•	•	•	•	MAPY LE S+L ^{2) 3)}
	•	•	•	•	MAPY LE P ^{1) 3)}

¹⁾ without pump, with inlet pressure regulation

²⁾ with 2 chemical sensors for oxygen

³⁾ gases to be specified

All versions available with cerionia measuring cell for O₂. 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 ₂ for sampling	chemical measuring cell	0-100%	± 0.2%	6 sec.	approx. 2 y. in air
O ₂ for continuous analysis	chemical measuring cell	0-100%	± 0.2%	10 sec.	approx. 3 y. in air
optional O ₂ 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 ₂	infrared measuring cell	0-30% 0-100% please indicate	± 0.5%	6 sec.	long lifetime

Type	MAPY LE
Gases	O ₂ , CO ₂ or O ₂ /CO ₂ not for flammable, corrosive or toxic gases!
Temperature (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 via lance	
Gas consumption	approx. 1 l/min the real gas consumption for calibration is depending on installation. optimal: 240 sec/calibration
Alarm contacts	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 software Update RJ45 Ethernet FTP-Server for software Update analog output 4-20 mA or 0-10 V
Languages	multilingual
Housing	stainless steel, IP 54
Weight	approx. 15 kg
Dimensions (HxWxD)	approx. 225 x 325 x 470 mm (8.86 x 12.80 x 18.50 inch) (without connections)
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 Service