

GAS ANALYSERS

www.wittgas.com

Portable multi-functional Analyser MAPY 4.0 for O₂, CO₂, He or O₂/CO₂

Analysing System for the monitoring of protective atmospheres in food packaging (MAP) and welding. 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, 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

Equipment selection

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

Options

- fully automatic calibration
- software WITT-LOGGER for recording of results (see separate data sheet)
- separate table printer for instant documentation
- plug set for external connection of signals
- model for higher inlet pressures
- bar code scanner for product names or user selection

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. 4 years in air
optional	O ₂ for sampling and for continuous analysis	zirconia measuring cell	0-25%	± 0.1%	2 sec.	unlimited
	O ₂ for sampling and for continuous analysis	paramagnetic measuring cell	adaptable please indicate	dependent on measuring range	5 sec.	unlimited
	CO ₂	infrared measuring cell	0-30% 0-100% please indicate	± 0.5%	6 sec.	unlimited
	helium	thermal conductivity	0-30% 0-100% please indicate	± 0.2% ± 0.5%	20 sec.	unlimited

Product Information / Technical Data

J8 subject to change

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Type	MAPY 4.0
Gases	O ₂ , CO ₂ , He 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	hose connections for ID 4 mm
Sample measuring	needle
Inlet pressure	max. 0.3 barg
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. 13.5 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 9001:2000, ISO 14001 and ISO 22000 CE-marked according to: - EMV 89/336/EWG - Low Voltage Directive 73/23/EWG