Portable multi-functional Analyser MAPY 4.0 for O_2, CO_2, He or O_2/CO_2

vertical display

reddot design award
winner 2009

inclined display

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

Options

- vertical or inclined display
- fully automatic calibration
- software WITT-GasControl 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
- diverse Ethernet cable
- only vertical displays:
  - selectable cable length for potential free contacts
  - selectable cable length for power supply
  - heating and thermostat for chemical measuring cell

Equipment selection

Applications		Analysis		Gases				
Food	Welding	Sampling	Continuous Analysis	O_2	CO_2	O_2/CO_2	helium	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.

Product Information / Technical Data

C01/J0 subject to change

manufactures mixing, metering and control equipment as well as analysing systems and safety equipment for all common gases

MFA 4

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%	2 sec.	no limited
optional	O_2 for sampling and for continuous analysis	paramagnetic measuring cell	adaptable please indicate	dependent on measuring range	5 sec.	no limited
	CO_2	infrared measuring cell	0-30% 0-100% please indicate	± 0.5%	6 sec.	no limited
	helium	thermal conductivity	0-30% 0-100% please indicate	± 0.2% / ± 0.5%	20 sec.	no limited

* no recommend for measures between 20 – 22%

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 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. 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:
- EMC 2004/108/EC
- Low Voltage Directive 2006/95/EC

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www.wittgas.com

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