MULTI-FUNCTIONAL ANALYZER MAPY 4.0
for O_2, CO_2 or O_2/CO_2

www.wittgas.com

reddot design award
winner 2009

Analyzing 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 analyzer to guarantee quality and productivity of production processes. Available as a single or double analyzer 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 personalization

Options

- fully automatic calibration
- plug set for external connection of signals
- model for higher inlet pressures
- bar code scanner for product names or user selection
- GASCONTROL CENTER software for master data maintenance, as well as for reading and exporting measurement data

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.

WITT Gas Controls LP, 1055 Windward Ridge Parkway, Suite 170, Alpharetta, Georgia 30005, USA
Tel. +1 770-664-4447, Fax +1 770-664-4448, witt-usa@wittgas.com, www.wittgas.us

MULTI-FUNCTIONAL ANALYZER MAPY 4.0
for O_2, CO_2 or O_2/CO_2

www.wittgas.com

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
optional	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) +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. 4.35 PSIG

P-version 21.76 PSIG – 145 PSIG

Calibration

Gas consumption approx. 2.12 SCFH

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. 15.87 lb

Dimensions (HxWxD) approx. 4.33 x 11.81 x 10.24 inches

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

WITT Gas Controls LP, 1055 Windward Ridge Parkway, Suite 170, Alpharetta, Georgia 30005, USA
Tel. +1 770-664-4447, Fax +1 770-664-4448, witt-usa@wittgas.com, www.wittgas.us