MULTI-FUNCTIONAL ANALYZER MAPY LE
for \(O_2\), \(CO_2\) or \(O_2/CO_2\)

Analyzing 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 analyzer for oxygen and carbon dioxide.

Benefits
- minimum sample gas required for analyzing 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

<table>
<thead>
<tr>
<th>Analysis</th>
<th>Gases</th>
<th>Type of equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sampling (option)</td>
<td>Continuous Analysis</td>
<td>(O_2)</td>
</tr>
<tr>
<td>(\bullet)</td>
<td>(\bullet)</td>
<td>(\bullet)</td>
</tr>
<tr>
<td>(\bullet)</td>
<td>(\bullet)</td>
<td>(\bullet)</td>
</tr>
<tr>
<td>(\bullet)</td>
<td>(\bullet)</td>
<td>(\bullet)</td>
</tr>
<tr>
<td>(\bullet)</td>
<td>(\bullet)</td>
<td>(\bullet)</td>
</tr>
</tbody>
</table>

\(^1\) without pump, with inlet pressure regulation
\(^2\) with 2 chemical sensors for oxygen
\(^3\) gases to be specified

All versions available with circonia measuring cell for \(O_2\).
Please complete your type of equipment with Zr.
MULTI-FUNCTIONAL ANALYZER MAPY LE
for O\textsubscript{2}, CO\textsubscript{2} or O\textsubscript{2}/CO\textsubscript{2}

Measuring systems

<table>
<thead>
<tr>
<th>Gases</th>
<th>Measuring system</th>
<th>Measuring range</th>
<th>Repeatability</th>
<th>Response time</th>
<th>Service life</th>
</tr>
</thead>
<tbody>
<tr>
<td>O\textsubscript{2} for sampling</td>
<td>chemical measuring cell</td>
<td>0-100%</td>
<td>± 0.2%</td>
<td>6 sec.</td>
<td>approx. 2 years in air</td>
</tr>
<tr>
<td>O\textsubscript{2} for continuous analysis</td>
<td>chemical measuring cell</td>
<td>0-100%</td>
<td>± 0.2%</td>
<td>10 sec.</td>
<td>approx. 3 years in air</td>
</tr>
<tr>
<td>O\textsubscript{2} for sampling and for continuous analysis</td>
<td>zirconia measuring cell</td>
<td>0-100%</td>
<td>± 0.1%</td>
<td>4 sec.</td>
<td>long lifetime</td>
</tr>
<tr>
<td>O\textsubscript{2} for sampling and for continuous analysis</td>
<td>paramagnetic measuring cell</td>
<td>adaptable please indicate</td>
<td>dependent on measuring range</td>
<td>5 sec.</td>
<td>long lifetime</td>
</tr>
<tr>
<td>CO\textsubscript{2}</td>
<td>infrared measuring cell</td>
<td>0-30% 0-100%</td>
<td>± 0.5%</td>
<td>6 sec.</td>
<td>long lifetime</td>
</tr>
</tbody>
</table>

Type
MAPY LE

Gases
O\textsubscript{2}, CO\textsubscript{2} or O\textsubscript{2}/CO\textsubscript{2}
not for flammable, corrosive or toxic gases!

Temperature (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 via lance
approx. 1 l/min
the real gas consumption for calibration
is depending on installation.
optimal: 240 sec/calibration

Gas consumption
2 potential free contacts for min. and max. settings
(adjustable for each gas)

Alarm contacts

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. 33 lb

Dimensions (HxWxD)
approx. 8.86 x 12.80 x 18.50 inches
(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: