

**GAS ANALYSERS**

Product Information

## Portable multi-functional Analyser MFA for O<sub>2</sub>, CO<sub>2</sub>, He or O<sub>2</sub>/CO<sub>2</sub>

Analysing System for the monitoring of protective atmospheres in food packaging 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 analysing of smallest volumes (e.g. food packaging)
- fast measuring results of sampling
- simple to operate
- 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



### Options

- fully automatic calibration (for single gas analysers)
- software WITT-LOGGER for recording of results
- separate table printer for instant documentation
- lockable door with window to prevent tampering
- audio-visual alarms
- plug set for external connection of signals
- model for higher inlet pressures

### Equipment selection

Applications		Analysis		Gases				Type of equipment
Food	Welding	Sampling	Continuous Analysis	O <sub>2</sub>	CO <sub>2</sub>	O <sub>2</sub> /CO <sub>2</sub>	helium	
•		•	•	•	•	•		MFA III <sup>2)</sup>
•		•		•	•	•		MFA III S
•			•	•	•	•		MFA L
•	•		•	•	•	•	•	MFA P <sup>1) 3)</sup>

<sup>1)</sup> without pump, with inlet pressure regulation

<sup>2)</sup> with 2 sensors for oxygen

<sup>3)</sup> gases to be specified

### Measuring systems

	Gases	Measuring system	Measuring range	Repeatability	Response time	Service life
	O <sub>2</sub> for sampling	chemical measuring cell	0-100%	± 0.2%	6 sec.	approx. 2 y. in air
	O <sub>2</sub> for continuous analysis	chemical measuring cell	0-100%	± 0.2%	10 sec.	approx. 4 y. in air
optional	O <sub>2</sub> for sampling and for continuous analysis	zirconium measuring cell	0-25% 0-100% please indicate	± 0.1%	2 sec.	unlimited
	O <sub>2</sub> for sampling and for continuous analysis	paramagnetic measuring cell	adaptable please indicate	dependent on measuring range	5 sec.	unlimited
	CO <sub>2</sub>	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

Technical Data

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www.wittgas.com

<b>Type</b>	MFA
<b>Gases</b>	O <sub>2</sub> , CO <sub>2</sub> , He or O <sub>2</sub> /CO <sub>2</sub> not for flammable, corrosive or toxic gases!
<b>Temperature range (gas/environment)</b>	0-45 °C (32-113 °F)
<b>Gas connections</b>	
<b>Permanent measuring</b>	hose connections for ID 4 mm
<b>Sample measuring</b>	needle
<b>Inlet pressure</b>	max. 0.3 barg
<b>Alarm signals</b>	2 potential free contacts for min. and max. settings (adjustable for each gas)
<b>Interfaces</b>	RS 232 with ASCII-output of date, time, measured value analog output 4-20 mA or 0-10 V
<b>Housing</b>	stainless steel, splash-proof
<b>Weight</b>	approx. 13.5 kg
<b>Dimensions (HxWxD) (without carrying handle)</b>	approx. 222 x 325 x 455 mm (8.74 x 12.80 x 17.91 inch)
<b>Voltage</b>	230 V AC 50 / 60 Hz 110 V AC 50 / 60 Hz
<b>Power consumption</b>	230 V AC / 0.12 A
<b>Approvals</b>	Company certified according to ISO 9001:2000 and ISO 14001 CE-marked according to: - EMC 89/336/EEG - Low Voltage Directive 73/23/EEG