

GAS ANALYSERS

Product Information

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

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 ₂	CO ₂	O ₂ /CO ₂	helium	
•		•	•	•	•	•		MFA III ²⁾
•		•		•	•	•		MFA III S
•			•	•	•	•		MFA L
•	•		•	•	•	•	•	MFA P ^{1) 3)}

¹⁾ without pump, with inlet pressure regulation

²⁾ with 2 sensors for oxygen

³⁾ gases to be specified

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 y. in air
	O ₂ for continuous analysis	chemical measuring cell	0-100%	± 0.2%	10 sec.	approx. 4 y. in air
optional	O ₂ for sampling and for continuous analysis	zirconium measuring cell	0-25% 0-100% please indicate	± 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

Technical Data

GAS ANALYSERS

www.wittgas.com

Type	MFA
Gases	O ₂ , CO ₂ , He or O ₂ /CO ₂ not for flammable, corrosive or toxic gases!
Temperature range (gas/environment)	0-45 °C (32-113 °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 analog output 4-20 mA or 0-10 V
Housing	stainless steel, splash-proof
Weight	approx. 13.5 kg
Dimensions (HxWxD) (without carrying handle)	approx. 222 x 325 x 455 mm (8.74 x 12.80 x 17.91 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 and ISO 14001 CE-marked according to: - EMC 89/336/EWG - Low Voltage Directive 73/23/EWG



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