

## IR/UV GAS ANALYSER

## MCA 5000


 Bluetooth®



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- + System solution with ready-to-use analysis system in robust, compact case
- + Reliable measurements with proven measurement technology adapted to the applications
- + Almost any combination of analysis modules due to modular design
- + Highly accurate, selective SO<sub>2</sub>, NO and NO<sub>2</sub> measurement with UV modules
- + Highly selective NDIR modules for continuous measurement of almost any gas component (CO, NO, SO<sub>2</sub>, CO<sub>2</sub>, HC, etc.) absorbing in the infrared spectrum
- + Accurate oxygen measurement by means of paramagnetic measuring principle
- + Determination of O<sub>2</sub>, CO, NO, NO<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub>, etc. by means of electro-chemical cells
- + Automatic adjustment with test gases
- + Efficient and flexible communication via 0(4)–20 mA, Ethernet, CAN bus or Profibus-DP interfaces
- + State of the art data transmission via LAN, WLAN, Bluetooth or USB
- + Integrated data logger
- + Easy service: Simple maintenance and repair because individual components or modules can be replaced

**Application** MCA 5000 is a portable extractive gas analyser for measurement of more than 60 components. It excels with a consistently modular design. Depending on the application, up to 10 analysis modules (electro-chemical, paramagnetic, NDIR and/or UV) can be installed in a case, together with a control unit and a display unit. The cost-effective system configuration also allows for the integration of additional components such as pressure, temperature, humidity or a gas treatment system.

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The gas analyser is available with or without gas treatment system.

## Technical data

Measuring ranges				
Gas type	Type	Min. measuring range	Max. measuring range	Interval
O <sub>2</sub>	ec	2 % by volume	25 % by volume	continuous
	PM	1 % by volume	100 % by volume	continuous
CO	ec	100 ppm	2,000 ppm	discontinuous
	IR	1,000 ppm	50 % by volume	continuous
CO <sub>2</sub>	IR	500 ppm	100 % by volume	continuous
NO	ec	100 ppm	1,000 ppm	discontinuous
	IR	2,000 ppm	1 % by volume	continuous
NO <sub>2</sub>	ec	50 ppm	1,000 ppm	discontinuous
	UV	100 ppm	5,000 ppm	continuous
SO <sub>2</sub>	ec	50 ppm	200 ppm	discontinuous
	UV	100 ppm	50 % by volume	continuous
CH <sub>4</sub>	IR	5,000 ppm	100 % by volume	continuous

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Enquire for other gases/  
components.

**Indication (calculated values)**

CO undiluted (air-free), lambda, dew point, flue gas loss

**Gas types**

Max. 8 gases

**Flow rate**

30/60 l/h

**Operating temperature range**

Operation: 10/40 °C

**Degree of protection**

IP 40

**Display**

Touch display 7" (17.78 cm)

**Supply voltage**

AC 230 V or AC 115 V

**Interfaces**

0/4–20 mA  
Ethernet  
Profibus-DP  
LAN  
USB

**Options**

- Electro-chemical sensors
- 2 temperature inputs
- Interfaces: Bluetooth, WLAN, CAN bus
- Liquid alarm sensor (LA+)
- Flow monitoring (FA-)
- Gas cooler: Approx. 5–8 °C T<sub>p</sub>
- Heated gas line up to 180 °C (max. 5 m)
- Heated probe, self-controlling

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PG: 4	Part no.	Price €
IR gas analyser MCA 5000, O <sub>2</sub> , CO, CO <sub>2</sub>	69504	On request
IR gas analyser MCA 5000, O <sub>2</sub> , CO, NO	69505	On request
IR/UV gas analyser MCA 5000, O <sub>2</sub> , CO, CO <sub>2</sub> , SO <sub>2</sub>	69507	On request
IR gas analyser MCA 5000, O <sub>2</sub> , CO, CO <sub>2</sub> , NO	69508	On request
IR/UV gas analyser MCA 5000, O <sub>2</sub> , CO, CO <sub>2</sub> , NO, SO <sub>2</sub>	69509	On request