

**TUV approval according
to TI air and 13th BImSchV
as well as EN 15267 is pending**



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Product information MGA 12

Application

The gas analyser **MGA 12** can measure up to 6 infrared-active gas components (CH_4^* , CO , CO_2 , NO , SO_2 , H_2O^*) at once. Furthermore the device can be extended by maximum 2 electrochemical cells for the measurement of O_2 , NO^* , H_2S^* .

The TUV approval according to TI air and 13th BImSchV as well as EN 15267 is pending for the device as integral part of the analysing system MGA 12.

The **MGA 12** can be used in emission measuring systems and for process and safety monitoring. It is designed for use in non-potentially explosive atmospheres.

Application examples

- optimisation of small firing systems
- monitoring of exhaust gas concentration from firing systems with different types of fuel (oil, gas and coal) as well as operational measurements in thermal incineration plants
- monitoring of process control functions
- monitoring of atmosphere during heat treatment of steel
- cement plants
- coal bunker

Smallest measuring ranges

- CO 0 ... 150 / 1.000 mg/m^3 (0 ... 120/ 800 ppm)
- CH_4 0 ... 200 / 1.000 mg/m^3 (0 ... 250/1.400 ppm)*
- SO_2 0 ... 200 / 1.000 mg/m^3 (0 ... 75/ 350 ppm)
- NO 0 ... 250 / 1.000 mg/m^3 (0 ... 200/ 750 ppm)
(or 0 ... 100/ 500 ppm in case of electrochemical cell)*
- O_2 0 ... 5,0 / 25 Vol%
- CO_2 0 ... 0,1/25 Vol%
- H_2O 0 ... 3,0 Vol% (residual moisture content behind cooler)*
- H_2S 0 ... 50/250 ppm*



*not included in TUV approval

Highlights of the device

- compact system as 19"-unit, simply to install in analysis unit or cabinet
- 2 separate gas paths possible
- on-site diagnosis of the facility's state due to a graphical display with high resolution showing a bar diagram for each measuring component
- option for presentation in ppm, mg/m³ and Vol%
- compensation of temperature, pressure and water vapour cross sensitivity
- display of flow control
- infrared photometer heated up to 55 °C
- easy maintenance
- excellent cost effectiveness

Options of the device

- control of an automatical probe back flushing (pulse duration, time interval)
- integrated humidity monitor for function control of gas cooler and contract for „pump off“
- continuous output of all measuring signals and status via RS 232 interface



General technical data

Case:	19"-unit 3 HE
Dimensions:	482,6 x 132,6 x 350 mm (W x H x D), weight ca. 4,6 kg
Dimensions cabinet:	800 x 2100 x 600 mm (W x H x D), weight ca. 170 kg
Ambient temperature:	+5 ... +40 °C
Measuring principle:	infrared photometer (CH ₄ *, CO, CO ₂ , SO ₂ , NO, H ₂ O*) electrochemical cell (O ₂ , H ₂ S*, NO*)
Display:	LC-display, 240 x 128 Pixel, back-lighted
Keyboard:	keypad
Operation:	menu-driven
Accuracy:	< 2 % of the respective measuring range
Zero point correction:	automatically
Sensitivity correction:	automatically with calibration gas (optional)
Baro correction:	internal
Response time:	T ₉₀ < 180 seconds (depending on plant and the chosen component)
Analog outputs:	max. 4 ... 20 mA (output of all signals via RS232)
Digital signals:	failure, maintenance, maintenance request, limit values, measuring range signalling, autocal
Interface:	RS 232
Power supply:	110 VAC, 230 VAC / 50 - 60 Hz, 40 W