



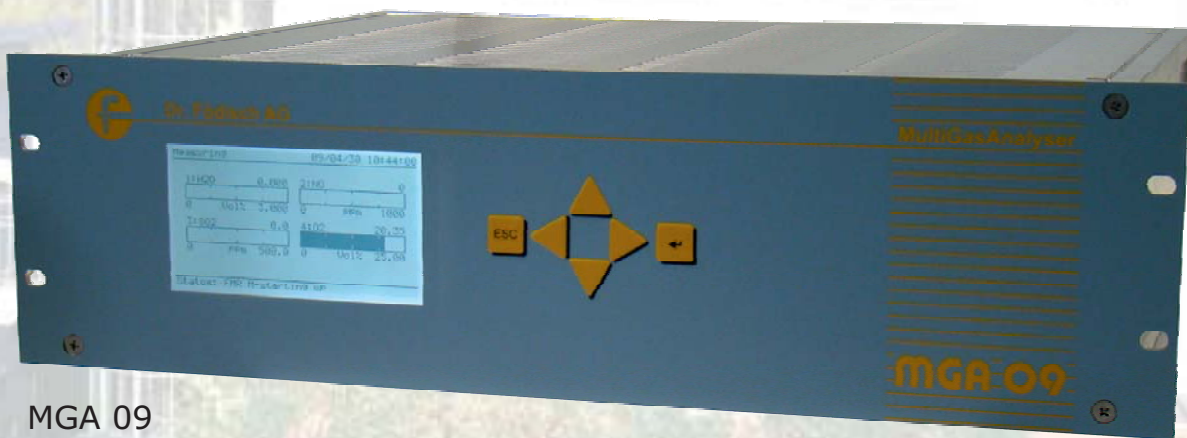
Product information MGA 09

Application

The **MGA 09** gas analyser can measure various infrared-active gases, e.g. CH₄, CO, CO₂, NO, SO₂, H₂O as well as the components O₂, NO and H₂S by means of electrochemical cells. In maximum 3 infrared components as well as 2 measuring cells can be combined for simultaneous measurements.

The **MGA 09** gas analyser can be used in emission measuring systems and for process and safety monitoring.

It is designed for use in non-potentially explosive atmospheres.



MGA 09

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
- crematories
- cement plants
- coal bunker



Highlights of the device

- compact system as 19"-unit, simply to install in analysis unit or cabinet
- 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
- internal flow control
- infrared-photometer heated up to 55 °C
- easy maintenance
- excellent cost effectiveness

Options of the device

- rotameter on front plate
- control of an automatical probe back flushing (pulse duration, time interval)
- integrated humidity monitor for function control of gas cooler
- continuous output of 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 3,6 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
Detection limit value:	< 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:	5 x 4 ... 20 mA
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

Smallest measuring ranges

- CO 0 ... 240/1.200 ppm (0 ... 300/1.500 mg/m³)
- CH₄ 0 ... 560/2.800 ppm (0 ... 400/2.000 mg/m³)
- SO₂ 0 ... 140/700 ppm (0 ... 400/2.000 mg/m³)
- NO 0 ... 370/1.850 ppm (0 ... 500/2.500 mg/m³)
(or 0 ... 100 ppm in use of an electrochemical cell)
- O₂ 0 ... 25,0 Vol%
- CO₂ 0 ... 0,1 Vol%
- H₂O 0 ... 3,0 Vol% (residual moisture behind cooler)
- H₂S 0 ... 50 ppm