



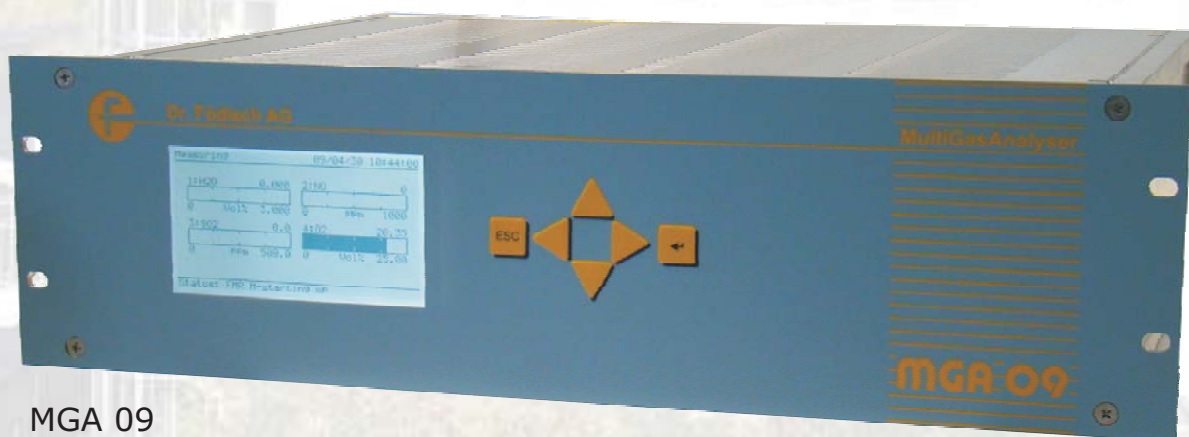
## Product information MGA 09

### Application

The **MGA 09** gas analyser can measure up to 5 gas components at once: either a maximum of 5 infrared sensitive gases such as CH<sub>4</sub>, CO, CO<sub>2</sub>, NO, SO<sub>2</sub>, H<sub>2</sub>O or a lower number of infrared gases combined with maximum 2 electrochemical measuring cells for the measurement of O<sub>2</sub>, NO, H<sub>2</sub>S.

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
- Room air monitoring
- 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/m<sup>3</sup> and Vol%
- Compensation of temperature-, pressure-, water vapour cross sensitivity
- Infrared-Photometer heated up to 55 °C
- Easy maintenance
- Excellent cost effectiveness

## 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 <sub>4</sub> , CO, CO <sub>2</sub> , SO <sub>2</sub> , NO, H <sub>2</sub> O) electrochemical cell (O <sub>2</sub> , H <sub>2</sub> 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:	With calibration gas automatically (optional)
Baro correction:	Internal
Response time:	T <sub>90</sub> < 180 seconds (depending on plant and the chosen component)
Analog outputs:	4 ... 20 mA
Digital signals:	Failure, Maintenance, Maintenance request, Limit values, Measuring range, Autocal
Interfaces:	RS 232, Profibus (optional)
Power supply:	110 VAC, 230 VAC / 50 - 60 Hz, 40 W

## Lowest measuring ranges

- CO 0 ... 120 ppm (0 ... 150 mg/m<sup>3</sup>)
- CH<sub>4</sub> 0 ... 250 ppm (0 ... 200 mg/m<sup>3</sup>)
- SO<sub>2</sub> 0 ... 75 ppm (0 ... 200 mg/m<sup>3</sup>)
- NO 0 ... 200 ppm (0 ... 250 mg/m<sup>3</sup>)  
(or 0 ... 100 ppm in use of an electrochemical cell)
- O<sub>2</sub> 0 ... 25,0 Vol%
- CO<sub>2</sub> 0 ... 0,1 Vol%
- H<sub>2</sub>O 0 ... 3,0 Vol% (residual moisture behind cooler)
- H<sub>2</sub>S 0 ... 50 ppm