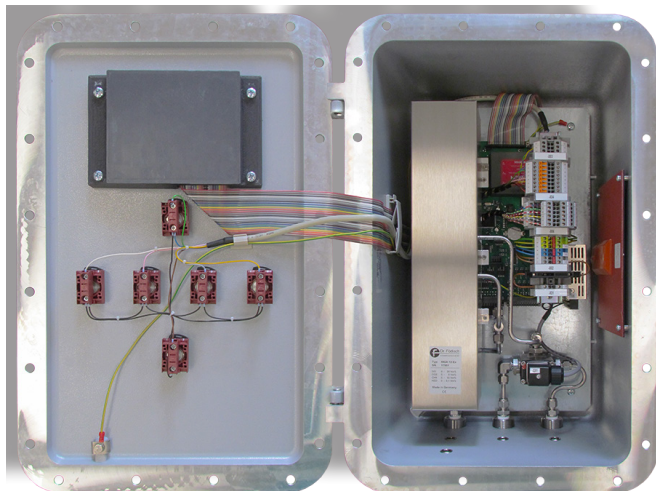


INTERIOR VIEW



DESIGN & APPLICATION

The multi gas analyser MGA 12 EX consists of a robust housing for application in potentially explosive atmospheres. In the interior of the housing the measuring technology of the analyser with the optical bench, the power supply unit and the signal processing is placed.

At the analysis of gas concentrations by the MGA 12 EX four different measuring methods are applied: infrared absorption, electrochemical cell, paramagnetic measuring method, thermal conductivity sensor.

TECHNICAL DATA

Housing:	robust housing, IP66; thermostatted infrared photometer (optical bench); 400 mm x 600 mm x 290 mm (w x h x d); approx. 40 kg (with option of paramagnetic oxygen measurement approx. 75 kg)
Measuring methods:	<ul style="list-style-type: none"> • infrared absorption (CO, CO₂, SO₂, NO, NO₂, CH₄, H₂O) • electrochemical cell (O₂, H₂S) • paramagnetic measuring method (O₂) • thermal conductivity sensor (H₂)
Accuracy:	< 2% of the respective measuring range
Response time:	T ₉₀ < 180 s (depending on plant and chosen component)
Ambient conditions:	-20...+40 °C; relative humidity: max. 90% (non-condensing)
Zero point correction:	automatic by integrated zero gas valve, with ambient air
Sensitivity correction:	manual, with test gas
Air pressure correction:	internal pressure sensor for real-time pressure compensation of measuring values
Gas inputs/outputs:	measuring gas input, zero gas input, exhaust output, breather; respectively with flame barrier, 6 mm Swagelok
Display / Operating:	graphic display (LCD), 240 x 128 Pixel, background-lighted; menu-driven operating; display possibility in mg/m ³ , ppm and vol. %; languages (factory-set): German, English, French, Polish; 6 operating keys
Analogue outputs:	4 active analogue outputs, 4...20 mA, potential-free, burden max. 500 Ohm
Digital outputs:	4 digital outputs, potential-free, 24 V DC with max. 0.4 A (max. 10 W) for failure, maintenance, maintenance request and zero point setting
Service interface:	RS232 and remote software for maintenance and diagnostic purpose
Power supply:	230 V AC / 50-60 Hz, 40 W (max. 90 W)
Options:	<ul style="list-style-type: none"> • paramagnetic oxygen sensor for measurement of O₂ (not available for pressure-resistant model, standard pressure up to max. 500 mbar) • thermal conductivity sensor for measurement of H₂ (not available for pressure-resistant model, standard pressure up to max. 500 mbar) • pressure-resistant model: pressure resistance of the measuring gas path up to max. 3 bar (not available in connection with Vparamagnetic oxygen sensor or thermal conductivity sensor) • digital inputs (optocoupler; e.g. for breather, measuring gas pipe, gas cooling unit)

Special models are possible on request.