## TECHNICAL DATA SHEET

## Ideal for servicing biogas plants, CHP units and gas engines

With the BIOGAS option, all flue gas measuring devices of the <sup>Engine</sup> version can be extended for use on biogas, sewage gas or landfill gas operated systems. Special components reliably protect the sensor system when measuring flue gases from digester gas-based fuels, which are particularly demanding due to moisture, aggressive components and high loads.

The option is ideal for operators, service technicians and inspectors of biogas-powered CHP units where availability and measurement reliability are paramount.

## **BIOGAS-OPTION**

for all Engine variants



## Technical data

Measured values	Range	Resolution	Accuracy *= Higher value prevails	
√ = Standard;  ● = Optional EC;  ● = Option	ional NDIR			
Maximum number of measurable gas components				6
02	021 %	0,1 vol. %	± 0,3 vol. %	√
CO (H <sub>2</sub> -comp.)	02.500 ppm (10.000 ppm)	1 ppm	± 20 ppm / 5 % of measured value*	√
NO	05.000 ppm	1 ppm	± 5 ppm / 5 % of measured value*	✓
NO <sub>2</sub>	01.000 ppm	1 ppm	± 5 ppm / 5 % of measured value*	√
$H_2S$	05.000 ppm	1 ppm	± 50 ppm / 5 % of measured value*	√
CH <sub>4</sub>	0100 vol. %	0,1 vol. %	$\pm5$ % of the measuring range end value	√
Other measured variables	Range	Resolution	Accuracy *= Higher value prevails	
T-Gas	0500 °C	1 °C	± 2 °C / 1,5 % of measured value*	√
	01.000 °C	0,1 °C	± 2 °C / 1,5 % of measured value*	
T-Air	099 °C	0,1 °C	±1°C	√
Pressure   △P	± 100 hPa	0,01 hPa	± 0,5 hPa /1 % of measured value*	√
Calculation values			Range	
CO <sub>2</sub>			0CO <sub>2 max</sub>	√
Combustion efficiency (ETA)			0120 %	√
Excess air (Lambda)			>1	√
Losses qA			0100 %	√
CO <sub>(U)</sub> undiluted			x ppm	√
Dew point			x° C	√
mg/m³			x mg/m³	√
mg/kWh			x mg/kWh	√
O <sub>2</sub> reference			x % O <sub>2</sub>	✓









