

Multi-gas analyzer

INCA3000



Biogas



Energy generation
from waste





Multi-gas analyzer

INCA3000

Determine gas composition precisely.

- Methane
- Carbon dioxide
- Hydrogen sulfide
- Oxygen
- Higher hydrocarbons (C₂+)
- Hydrogen (H₂)

The INCA3000 multi-gas analyzer is designed for indoor installation. It can measure condensate-free gases with or without inlet pressure.

The device can be equipped with up to 10 gas measurement inputs.

Typical measuring ranges INCA3000

Sensors	Measuring principle	Measuring range	Repeatability
CH ₄	Infrared absorption (NDIR)	0-100 Vol.-%	0.05 Vol.-%
CO ₂	Infrared absorption (NDIR)	0-100 Vol.-%	0.05 Vol.-%
H ₂ S	Electrochemical (EC)	0-100, 0-2000, 0-5000, 0-10000 ppm	1 ppm, 20 ppm, 50 ppm, 100 ppm
H ₂ S pulse	Electrochemical (EC)	50-1000, 500-20000, 1000-50000, 2000-50000 ppm	5 ppm, 50 ppm, 100 ppm, 200 ppm
O ₂	Electrochemical (EC), paramagnetic	0-25 Vol.-%	0.1 Vol.-%
H ₂	Electrochemical (EC)	0-1000 ppm, 0-100 Vol.-%	5 ppm, 0.5 Vol.-%

CAM Biogas/Biomethane

Options	Measurement quantity / component		
Options for different IR sensors	CH ₄ CO ₂	0-100 Vol.-% 0-100 Vol.-%	Cyclic measurement
Digital IR	CH ₄ CO ₂ C ₂ +	0-100 Vol.-% 0-100 Vol.-% 0-30 Vol.-%	Continuous measurement
Digital IR	CH ₄ CO ₂ C ₂ +	0-100 Vol.-% 0-100 Vol.-% 0-30 Vol.-%	WLD for hydrogen or biomethane Continuous measurement
Options for different EC configurations	H ₂ S H ₂ S Pulse	0-100 ppm 50-1000 ppm	0-2000 ppm/0-5000 ppm/0-10000 ppm 500-20000 ppm/1000-50000 ppm/2000-50000 ppm
Digital EC	H ₂ H ₂ Pulse	0-1000 ppm 0-10000 ppm	
Digital EC	CO CO Pulse	0-200 ppm 0-1000 ppm	
O ₂	O ₂	0-25 Vol.-%	

Technical specifications INCA3000

Weight	21 kg	Relative gas humidity	< 95 % condensate-free
Dimensions W × H × D (mm)	555 x 630 x 310	Ambient conditions	
Protection class	IP43	Operating temperature	15-45 °C
Installation location	indoor	Humidity	0-95 % relative humidity
Power supply	100-240 V, 50/60 H	Ambient pressure	900-1250 hPa (0,9-1,2 bar)
Power consumption	150 VA	Storage temperature	-20 bis 60 °C
Gas inlets		Interfaces	
Measurement gas inlets	up to 10	Relay	optional
Calibration gas inlets	1	4-20 mA	optional
Zero gas	1	FFieldbus	optional
Gas connections	compression fitting 6 mm		
Maximum gas inlet pressure	20 mbar rel.		
Minimum gas inlet pressure	-100 mbar rel.		
Flame arrestor	optional		



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