



ecom-D, the compact professional BIO gas analyser for inspection and adjustment work on biogas systems

Tested in accordance with
EN 50379-2 and 1st BImSchV



COMPACT BIO GAS ANALYSIS

Made in Germany



Reliable

Precise measurement results thanks to sensor calibration in the climate chamber



Safe

No measurement interruption thanks to CO sensor overload protection and free purging during operation



Efficient

Switch on - measure - manage data - done!



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ecom[®]
Measurement Technology

„Exact measured values to reduce emission values.“

THE HANDY INDUSTRIAL SOLUTION

Control measurements on industrial plants



- Up to 6 gas sensors possible
- Electronic condensate monitoring
- H₂ ready and solid fuel types analysis possible

● = Basis EC ● = Optional EC ● = Optional NDIR



Technical data		✓ Standard • Option		
Measured values	Range	Resolution	Accuracy	*= Higher value applies
Maximum number of gas sensors				6
O ₂	0...21/25 %	0,1 vol. %	± 0,2 vol. %	✓
CO (H ₂ -comp.)	0...10,000 ppm	1 ppm	± 2 ppm for <500ppm, 5 % of mv	✓
CO%	0...63.000 ppm	5 ppm	± 100 ppm / 10 % of reading*	•
CO ₂ IR sensor	0...100 vol. %	0,01 vol. %	± 0,2 vol. % / 2 % of reading*	•
NO	0...5.000 ppm	1 ppm	± 5 ppm / 5 % of reading*	•
NO ₂	0...1.000 ppm	1 ppm	± 5 ppm / 5 % of reading*	•
NO _x	via NO/NO ₂			
SO ₂	0...8.000 ppm	1 ppm	± 10 ppm / 5 % of reading*	•
H ₂	0...2.000 ppm	1 ppm	± 10 ppm / 5 % of reading*	•
	0...20.000 ppm	1 ppm	± 50 ppm / 5 % of reading*	•
H ₂ S	0...1.000 ppm	1 ppm	± 10 ppm / 5 % of reading*	•
CH ₄ IR	0...100 vol. %	0,01 vol. %	bis 5 vol. % of reading*	•
Other measured variables		Range	Resolution	Accuracy
T-Gas	0...500 °C	1 °C	± 2 °C / 1,5 % of reading*	✓
	0...1200 °C	1 °C	± 2 °C / 1,5 % of reading*	•
T-Air	0...99 °C	1 °C	± 1 °C	✓
Pressure ΔP	± 100 hPa	0,01 hPa	± 0,5 hPa / 1 % of reading*	✓

Technical data	
Calculation values	Range
CO ₂	0...CO _{2,max}
Combustion efficiency (ETA)	0...120 %
Excess air (Lambda)	>1
Losses qA	0...100 %
Velocity	0 to 40 m/sec.
mg/m ³	x mg/m ³
mg/kWh	x mg/kWh
O ₂ reference	x % O ₂

Options among others

- NO_x gas sampling hose for loss-free measurement of water-soluble NO₂- and SO₂ particles
- Gas flow measurement
- Mini gas cooler for sample drying before analysis
- Integrated high-speed thermal printer module

Probe prefilter

to prevent the ingress of solid components



Probe attachments

in various lengths and temperature ranges 1M/2M/3M



ecom-DP

for measuring different pressures



e.CLOUD by ecom

digital measurement data and customer management



ecom[®]
Measurement Technology

ecom gas analyzer most suitable for **BIOGAS Application**


- CH₄ Measurement
- H₂S Measurement
- CO₂ Measurement
- CO Measurement



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