

# ecom-D

The compact professional flue gas analyser for inspection and adjustment work on industrial combustion plants

Tested in accordance with  
EN 50379-2 and 1<sup>st</sup> BImSchV



## COMPACT FLUE 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**<sup>®</sup>  
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
- H<sub>2</sub> ready and solid fuel types analysis possible

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



Technical data				✓ Standard	• Option
Measured values	Range	Resolution	Accuracy	* = Higher value prevails	
Maximum number of gas sensors					6
O <sub>2</sub>	0...21 %	0,1 vol. %	± 0,3 vol. %	✓	
CO (H <sub>2</sub> -comp.)	0...2.500 ppm (10.000 ppm)	1 ppm	± 20 ppm / 5 % of reading*	✓	
CO%	0...63.000 ppm	5 ppm	± 100 ppm / 10 % of reading*		•
CO <sub>2</sub> IR sensor	0...20 vol. %	0,01 vol. %	± 0,5 vol. % / 5 % of reading*		•
NO	0...5.000 ppm	1 ppm	± 5 ppm / 5 % of reading*		•
NO <sub>2</sub>	0...1.000 ppm	1 ppm	± 5 ppm / 5 % of reading*		•
NO <sub>x</sub>	via NO/NO <sub>2</sub>				
SO <sub>2</sub>	0...5.000 ppm	1 ppm	± 10 ppm / 5 % of reading*		•
H <sub>2</sub>	0...2.000 ppm	1 ppm	± 10 ppm / 5 % of reading*		•
	0...20.000 ppm	1 ppm	± 50 ppm / 5 % of reading*		•
H <sub>2</sub> S	0...1.000 ppm	1 ppm	± 10 ppm / 5 % of reading*		•
CH <sub>4</sub> IR sensor	0...5 vol. %	0,01 vol. %	bis 5 vol. % of reading*		•
Other measured values	Range	Resolution	Accuracy		
T-Gas	0...500 °C	0,1 °C	± 2 °C / 1,5 % of reading*	✓	
	0...1.100 °C	0,1 °C	± 2 °C / 1,5 % of reading*		•
T-Air	0...99 °C	0,1 °C	± 1 °C	✓	
Pressure   ΔP	± 100 hPa	0,01 hPa	± 0,5 hPa / 1 % of reading*	✓	

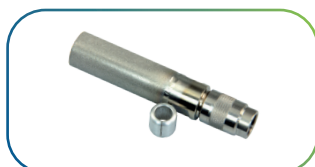
Technical data	
Calculation values	Range
CO <sub>2</sub>	0...CO <sub>2,max</sub>
Combustion efficiency (ETA)	0...120 %
Excess air (Lambda)	>1
Losses qA	0...100 %
Dew point	x °C
mg/m <sup>3</sup>	x mg/m <sup>3</sup>
mg/kWh	x mg/kWh
O <sub>2</sub> reference	x % O <sub>2</sub>

### Options among others

- NO<sub>x</sub> gas sampling hose for loss-free measurement of water-soluble NO<sub>2</sub> and SO<sub>2</sub> 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



### ecom-DP

for measuring different pressures



### e.CLOUD by ecom

digital measurement and customer data management

