



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

Tested in accordance with
EN 50379-2 and 1st 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[®]
Measurement Technology

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 %	0,01 vol. %	± 0,2 vol. %	✓	
CO (H ₂ -comp.)	0...10,000 ppm	1 ppm	± 5 % of Reading *	✓	
CO%	0...63,000 ppm	5 ppm	± 100 ppm / 10 % of reading*		•
CO ₂ IR sensor	0...20/100 vol. %	0,01 vol. %	± 0,3 vol. % + 1 % of reading*		•
NO	0...5,000 ppm	0.1 ppm	± 5 ppm / 5 % of reading*		•
NO ₂	0...1,000 ppm	0.1 ppm	± 5 ppm / 5 % of reading*		•
NO _x	via NO/NO ₂				
SO ₂	0...5,000 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 IR / HC	0...5 vol. %	0,01 vol. %	± 5 vol. % of reading*		•
Other measured variables	Range	Resolution	Accuracy		
T-Gas	0...500 °C	0.1 °C	± 2 °C / ± 0.3% of reading	✓	
	0...1200 °C	0.1 °C	± 2 °C / ± 0.3% of reading		•
T-Air	0...99 °C	0.1 °C	± 0.1 °C	✓	
Pressure ΔP	± 200 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 with 1 LPM pump
- Mini gas cooler for sample drying before analysis & Memory up to 2 Mio. Reading
- Integrated high-speed thermal printer module

Probe prefilter

to prevent the ingress of solid components

Probe attachments

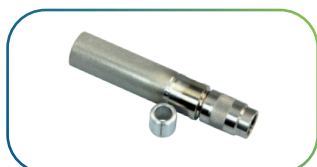
in various lengths and temperature ranges 1M/2M/3M

ecom-DP

for measuring different pressures

e.CLOUD by ecom

digital measurement data and customer management





Two powerful rear magnets for instrument positioning on metal surfaces...
... effortless release thanks to the detaching aid.



With length-adjustable holding strap. Can be fitted to the individual hand size thanks to Velcro strip.



View with mini gas cooler and T-Room stick – instead of T-Room sensor

ECOM-D

■ HANDY AND COMPACT ANALYSER
FOR CONTROL MEASUREMENTS

■ BASIC MODEL *Easy+* WITH O₂ / CO
LONGLIFE SENSORS – FURTHER
GAS SENSORS POSSIBLE

■ CO-SENSOR OVERLOAD
PROTECTION WITHOUT
MEASUREMENT INTERRUPTION

■ CONDENSATE TRAP WITH
ELECTRONIC LEVEL MONITORING

■ ERGONOMIC SAMPLING PROBE,
UNHEATED, LENGTH 250 MM

■ 3-CHAMBER TUBING 2.6 M

■ PERISTATIC PUMP INCLUDE

■ BACKLIT DISPLAY & KEYPAD

■ BLUETOOTH LOW ENERGY –BLE-

■ LI-ION BATTERY

■ ROBUST & ULTRALIGHT
PROTECTION HOUSING



View ecom-D in full, optional equipment:
thermal quick printer module, mini gas
cooler and NOx sampling tubing