

ecom-EN3

ecom-EN3 & EN3-R, robust portable analysers for fast efficient inspection and adjustment work on small to medium-sized combustion plants systems

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



MOBILE FLUE GAS ANALYSER

Made in Germany



Reliable

Precise measurement results thanks to sensor calibration in the climate chamber



Efficient

Fast measurement results thanks to the largest pump in its class



Safe

No measurement interruption thanks to sensor overload protection and flushing during operation



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ecom[®]
Measurement Technology

THE ROBUST CASE SOLUTION

Inspection and adjustment work on small and medium-sized systems



- Variant with integrated soot measurement [EN3-R]
- CO sensor overload protection with free purging without measurement interruption
- Electronic condensate monitoring
- H₂ ready and solid flue types analysis possible
- Backlit graphic display

● = Basis EC ● = Optional EC



Technical data				✓ Standard	• Option
Measured values	Range	Resolution	Accuracy * = Higher value applies		
Maximum number of gas sensors					6
O ₂	0...21 %	0,1 vol. %	± 0,3 vol. %	✓	
CO (H ₂ -comp.)	0...2.500 ppm (10.000 ppm)	1 ppm	± 20 ppm / 5 % of reading*	✓	
CO%	0...63.000 ppm	5 ppm	± 100 ppm oder 10 % 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...5.000 ppm	1 ppm	± 10 ppm / 5 % of reading*	•	
H ₂	0...2.000 ppm	1 ppm	± 10 ppm / 5 % of reading*	•	
H ₂	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*	•	
H ₂ S	0...5.000 ppm	1 ppm	± 50 ppm / 5 % of reading*	•	
Other measured variables	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 oder 1 % of reading*	✓	

Technical data	
Calculation values	Range
CO ₂	0...CO _{2max}
Combustion efficiency (ETA)	0...120 %
Excess air (Lambda)	>1
Losses qA	0...100 %
Dew point	x° C
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 less-free measurement of water-soluble NO₂ and SO₂ particles
- Gas flow measurement
- Gas cooler for sample drying before analysis

Case
for convenient storage of accessories and tools.



ecom-xRE
readout head for digital burner controllers.



ecom-UNO
pocket-sized differential pressure gauge.



e.CLOUD by ecom
Digital measurement data and customer management.

