

# €.EN3

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

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



## MOBILE FLUR 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**<sup>®</sup>  
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
- H<sub>2</sub> 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 <sub>2</sub>	0...21/25 %	0,1 vol. %	± 0,2 vol. %	✓	
CO (H <sub>2</sub> -comp.)	0...10000 ppm	1 ppm	± 5 % of reading*	✓	
CO%	0...63000 ppm	5 ppm	± 5 % of reading*		•
NO	0...5000 ppm	1 ppm	± 5 % of reading*		•
NO <sub>2</sub>	0...1000 ppm	1 ppm	± 5 % of reading*		•
NO <sub>x</sub>	über NO/NO <sub>2</sub>				
SO <sub>2</sub>	0...5000 ppm	1 ppm	± 5 % of reading*		•
CO <sub>2</sub> NDIR	0...100%	0.01%	±1.3% Vol / 3 % of reading*		•
H <sub>2</sub>	0...20.000 ppm	1 ppm	± 5 % of reading*		•
H <sub>2</sub> S	0...1.000 ppm	1 ppm	± 5 % of reading*		•
H <sub>2</sub> S	0...5.000 ppm	1 ppm	± 5 % of reading*		•
Other measured variables	Range	Resolution	Accuracy		
T-Gas	0...500 °C	1 °C	± 2 °C / 1,5 % of reading*	✓	
	0...1.200 °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 <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 less-free measurement of water-soluble NO<sub>2</sub> and SO<sub>2</sub> particles
- Gas flow measurement & Operation Temp 50 °C
- Mini 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

