E.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 1st BImSchV

SOLID FUEL TYPES POSSIBLE

H_2 READY

SOOT DOT TEST POSSIBLE

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

ecom GmbH
Am Großen Teich 2
58640 Iserlohn
info@ecom.de

ecom®
Measurement Technology

„Accurate flue gas measurement enables better combustion effiiency..“

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_2 ready and solid flue types analysis possible
- Backlit graphic display

● = Basis EC ● = Optional EC

O_2	CO	CO %	NO	NO_2	SO_2	H_2	H_2S

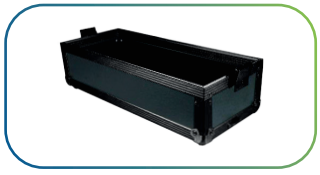
Technical darta			√ Standard • Option	
Measured values	Range	Resolution	Accuracy *= Higher value applies	
Maximum number of gas sensors				6
O_2	0...21/25 %	0,1 vol. %	± 0,2 vol. %	√
CO (H_2-comp.)	0...2.500 ppm (10.000 ppm)	1 ppm	± 20 ppm / 5 % of reading*	√
CO%	0...63.000 ppm	5 ppm	± 100 ppm / 10 % of reading*	•
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	über 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_2S	0...1.000 ppm	1 ppm	± 10 ppm / 5 % of reading*	•
H_2S	0...5.000 ppm	1 ppm	± 50 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 | △P	± 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 %
Dew point	x° C
mg/m^3	x mg/m^3
mg/kWh	x mg/kWh
O_2 reference	x % O_2

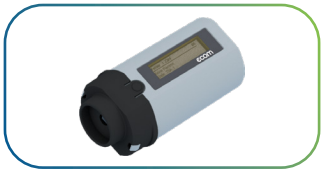
Options among others

- NO_X gas sampling hose for less-free measurement of water-soluble NO_2 and SO_2 particles
- Gas flow measurement
- 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

Stand 02/24

ecom GmbH | info@ecom.de | www.ecom.de