

€.EN3-F

ecom-EN3-F, the compact flue gas analyser in fit to fly hardtop case for efficient, industrial measurements

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 biggest pump available for portable analysers



Safe

Smooth operation thanks to automatic condensate drainage



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ecom[®]
Measurement Technology

THE FIT TO FLY ANALYSER

Inspection work on industrial plants



- With integrated soot measurement
- Heated gas sampling probe
- CO sensor overload protection with fresh air purge without measurement interruption
- Sample gas cooler with electronic condensate drain
- H₂ ready and solid fuel types analysis possible

● = Basis EC ● = Optional EC ● = Optional NDIR; ● = Optional Pellistor

O₂
CO
NO
NO₂
CO%
SO₂
H₂
H₂S
CO₂
CH₄
C_xH_y

Technical data				✓ Standard	• Option
Measured values	Range	Resolution	Accuracy	* = Higher value prevails	
Maximum number of gas sensors					6
O ₂	0...21 %	0,1 vol. %	± 0,3 vol. %	✓	
CO (H ₂ -comp.)	0...2.500ppm (10.000 ppm)	1 ppm	± 20 ppm / 5 % of reading*	✓	
CO%	0...63.000 ppm	5 ppm	± 100 ppm / 10 % of reading*		•
CO ₂ IR-sensor	0...20 vol. %	0,01 vol. %	± 0,5 vol. % / 5 % of reading*		•
	0...100 vol. %	0,01 vol. %	up to 5 vol. % of measure range end value		•
NO	0...5.000 ppm	1 ppm	± 5 ppm / 5 % of reading*		•
NO _{ExtraLow}	0...300 ppm	0,1 ppm	± 2 ppm / 5 % of reading*		•
NO ₂	0...1.000 ppm	1 ppm	± 5 ppm / 5 % of reading*		•
NO _{2Low}	0...100 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*		•
SO _{2LowCO}	0...5.000 ppm	1 ppm	± 10 ppm / 5 % of reading*		•
SO _{2Low}	0...100 ppm	0,1 ppm	± 5 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*		•
	0...5.000 ppm	1 ppm	± 50 ppm / 5 % of reading*		•
CH ₄ IR sensor	0...5 vol. %	0,01 vol. %	± 0,2 vol. % / 5 % of reading*		•
	0...100 vol. %	0,1 vol. %	up to ± 5 vol. % of measure range end value		•
C _x H _y Pellistor	0...4 vol. %	0,1 Vol. %			•

Other measured values	Range	Resolution	Accuracy	
T-Gas	0...500 °C	1 °C	± 2 °C / 1,5 % of reading*	✓
	0...1.100 °C	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 ₂	0...CO _{2max}
Combustion efficiency (ETA)	0...120 %
Excess air (Lambda)	>1
Losses qA	0...100 %
CO _(u) undiluted	x ppm
Dew point	x °C
mg/m ³	x mg/m ³
mg/kWh	x mg/kWh
O ₂ reference	x % O ₂

Probe prefilter
to prevent the ingress of solid components



ecom-DP
for measuring different pressures



ecom-LSG
for the detection of flammable gas leaks



e.CLOUD by ecom
digital measurement and customer data management

