

# €.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 1<sup>st</sup> 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**<sup>®</sup>  
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
- H<sub>2</sub> ready and solid fuel types analysis possible

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

O<sub>2</sub>
CO
NO
NO<sub>2</sub>
CO%
SO<sub>2</sub>
H<sub>2</sub>
H<sub>2</sub>S
CO<sub>2</sub>
CH<sub>4</sub>
C<sub>x</sub>H<sub>y</sub>

Technical data				✓ Standard	• Option
Measured values	Range	Resolution	Accuracy	* = Higher value prevails	
Maximum number of gas sensors					6
O <sub>2</sub>	0...21 %	0,1 vol. %	± 0,3 vol. %	✓	
CO (H <sub>2</sub> -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 <sub>2</sub> 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 <sub>ExtraLow</sub>	0...300 ppm	0,1 ppm	± 2 ppm / 5 % of reading*		•
NO <sub>2</sub>	0...1.000 ppm	1 ppm	± 5 ppm / 5 % of reading*		•
NO <sub>2Low</sub>	0...100 ppm	0,1 ppm	± 5 ppm / 5 % of reading*		•
NO <sub>x</sub>	via NO/NO <sub>2</sub>				
SO <sub>2</sub>	0...5.000 ppm	1 ppm	± 10 ppm / 5 % of reading*		•
SO <sub>2LowCO</sub>	0...5.000 ppm	1 ppm	± 10 ppm / 5 % of reading*		•
SO <sub>2Low</sub>	0...100 ppm	0,1 ppm	± 5 ppm / 5 % of reading*		•
H <sub>2</sub>	0...20.000 ppm	1 ppm	± 50 ppm / 5 % of reading*		•
H <sub>2</sub> S	0...1.000 ppm	1 ppm	± 10 ppm / 5 % of reading*		•
	0...5.000 ppm	1 ppm	± 50 ppm / 5 % of reading*		•
CH <sub>4</sub> 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 <sub>x</sub> H <sub>y</sub> 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	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>2max</sub>
Combustion efficiency (ETA)	0...120 %
Excess air (Lambda)	>1
Losses qA	0...100 %
CO <sub>(u)</sub> undiluted	x ppm
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>

### 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

