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~~

SOLID FUEL TYPES POSSIBLE

H_2 READY

SOOT DOT TEST POSSIBLE

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

„Combustion plants precisely conserve resources.“

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_2 ready and solid fuel types analysis possible

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

O_2 | CO | NO | NO_2 | CO % | SO_2 | H_2 | H_2S | CO_2 | CH_4 | 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*	•
$NO_{2\ Low}$	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*	•
$SO_{2\ Low\ CO}$	0...5.000 ppm	1 ppm	± 10 ppm / 5 % of reading*	•
$SO_{2\ Low}$	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_2S	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_xH_y Pellistor	0...4 vol. %	0,1 Vol. %		•

Other measured values	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 | △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 %
$CO_{(U)}$ undiluted	x ppm
Dew point	x° C
mg/m³	x mg/m³
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

As of 07/24, design and technical changes as well as possible printing errors are subject to change.

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