ecom-D, the compact professional flue gas analyser for inspection and adjustment work on industrial systems

Tested in accordance with
EN 50379-2 and 1st BImSchV

SOLID FUEL TYPES POSSIBLE

H_2 READY

COMPACT FLUE GAS ANALYSIS

Made in Germany

Reliable
Precise measurement results thanks to sensor calibration in the climate chamber

Safe
No measurement interruption thanks to CO sensor overload protection and free purging during operation

Efficient
Switch on - measure - manage data - done!

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ecom® Measurement Technology

„Exact measured values to reduce emission values.“

THE HANDY INDUSTRIAL SOLUTION

Control measurements on industial plants

- Up to 6 gas sensors possible
- Electronic condensate monitoring
- H_2 ready and solid fuel types analysis possible

● = Basis EC ● = Optional EC ● = Optional NDIR

O_2 | CO | NO | NO_2 | CO % | SO_2 | H_2 | H_2S | CO_2 | CH_4

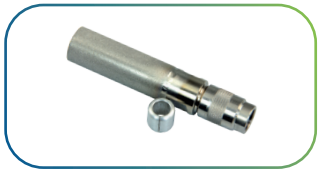
Technical data			√ Standard • Option
Measured values	**Range**	**Resolution**	**Accuracy *= Higher value applies**
Maximum number of gas sensors			6
O_2	0...21/25 %	0,01 vol. %	± 0,2 vol. % √
CO (H_2-comp.)	0...10,000 ppm	1 ppm	± 5 % of Reading * √
CO%	0...63,000 ppm	5 ppm	± 100 ppm / 10 % of reading* •
CO_2 IR sensor	0...20/100 vol. %	0,01 vol. %	± 0,3 vol. % +1 % of reading* •
NO	0...5,000 ppm	0.1 ppm	± 5 ppm / 5 % of reading* •
NO_2	0...1,000 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* •
H_2	0...2,000 ppm	1 ppm	± 10 ppm / 5 % of reading* •
	0...20,000 ppm	1 ppm	± 50 ppm / 5 % of reading* •
H_2S	0...1,000 ppm	1 ppm	± 10 ppm / 5 % of reading* •
CH IR /HC	0...5 vol. %	0,01 vol. % bis 5 vol. % of reading*	•
Other measured variables	**Range**	**Resolution**	**Accuracy**
T-Gas	0...500 °C	0.1 °C	± 2 °C / ± 0.3% of reading √
	0...1200 °C	0.1 °C	± 2 °C / ± 0.3% of reading •
T-Air	0...99 °C	0.1 °C	± 0.1 °C √
Pressure | △P	± 200 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 %
Execess air (Lambda)	>1
Losses qA	0...100 %
Velocity	0 to 40 m/sec.
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 loss-free measurement of water-soluble NO_2- and SO_2 particles
- Gas flow measurement
- Mini gas cooler for sample drying before analysis & Memory up to 2 Mio. Reading
- Integrated high-speed thermal printer module

Probe prefilter
to prevent the ingress of solid components



Probe attachments
in various lengths and temperature ranges 1M/2M/3M

ecom-DP
for measuring different pressures

e.CLOUD by ecom
digital measurement data and customer management

Stand 02/24

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