



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

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



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 industrial plants



- Up to 6 gas sensors possible
- Electronic condensate monitoring
- H₂ ready and solid fuel types analysis possible

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



| 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...2.500 ppm (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* | | • |
| 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 | 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 ₂ S | 0...1.000 ppm | 1 ppm | ± 10 ppm / 5 % of reading* | | • |
| CH ₄ IR sensor | 0...5 vol. % | 0,01 vol. % | bis 5 vol. % of reading* | | • |
| Other measured values | | | | | |
| 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 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 loss-free measurement of water-soluble NO₂ and SO₂ particles
- Gas flow measurement
- Mini gas cooler for sample drying before analysis
- Integrated high-speed thermal printer module

Probe prefilter

to prevent the ingress of solid components



Probe attachments

in various lengths and temperature ranges



ecom-DP

for measuring different pressures



e.CLOUD by ecom

digital measurement and customer data management

