

ecom-EN3^{Tech}

Compact UV-based gas analyser for accurate NO_x/SO₂ measurements at industrial furnaces even at low concentrations.

An analyser starting duty long before its operator does



MOBILE FLUE GAS ANALYSER

Made in Germany



Time-saving

Pre-heating function providing immediate system operability at measurement site - noticeably reducing the total intervention time



Exact

Cross-interference-free emission measurements even at very low NO_x / SO₂ concentrations thanks to UV technology.



Efficient

Immediate update of the displayed measurement values in the event of fluctuating gas concentrations thanks to the powerful sampling pump.



ecom GmbH
Am Großen Teich 2
58640 Iserlohn
info@ecom.de

ecom[®]
Measurement Technology

HIGH-TECH ANALYSER IN A PRACTICAL CASE

For environmental emission measurement



● = Basis EC ● = Basis UV



- Analysis of 5 gas components on electro-chemical or ultraviolet measurement principle
- High accuracy of NO_x / SO₂ readings thanks to UV module
- CO overload protection and fresh air purging without measurement interruption
- Electronic condensate monitoring with automatic draining
- Backlit colour display
- Data: printout via integrated thermal quick-printer, or storage on optional SD card
- Robust case with adjustable straps for hands-free transport

Technical data				✓ Standard	• Option
Measured values	Range	Resolution	Accuracy * = Higher value applies		
Number of gas components measured					5
O ₂	0...21 %	0,01 vol. %	± 0,3 vol. %	✓	
CO (H ₂ -comp.)	0...2.500 ppm (10.000 ppm)	1 ppm	± 20 ppm / 5 % of reading*	✓	
NO (NDUV)	0...300 ppm (2.000 ppm)	0,1 ppm	± 3 ppm / 1 % of reading*	✓	
NO ₂ (NDUV)	0...300 ppm (2.000 ppm)	0,1 ppm	± 3 ppm / 1 % of reading*	✓	
SO ₂ (NDUV)	0...300 ppm (2.000 ppm)	0,1 ppm	± 3 ppm / 1 % of reading*	✓	
Other measured variables					
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 ΔP	± 100 hPa	0,01 hPa	± 0,5 hPa o 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 %
Dew point	x° C
mg/m ³	x mg/m ³
mg/kWh	x mg/kWh
O ₂ reference	x % O ₂

HEATED GAS SAMPLING SYSTEM (optional)

Consisting of heated tubing and probe head with thermocouple (0-500 °C). An integrated hot gas filter avoids wash-out effects of water-soluble NO₂/SO₂ and combined with the dust particle filter guarantees precise long-lasting measurement results.



GAS SAMPLING SYSTEM (optional)

Consisting of special sampling tubing with Teflon sleeve for washout-free conveyance of water-soluble NO₂ /SO₂ particles and of pistol grip probe with high-temperature probe tip / thermocouple (0-1.100°C).

