

# ecom-EN3<sup>Tech</sup>

Compact UV-based gas analyser for accurate NO<sub>x</sub>/SO<sub>2</sub> 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<sub>x</sub> / SO<sub>2</sub> 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](mailto:info@ecom.de)

**ecom**<sup>®</sup>  
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<sub>x</sub> / SO<sub>2</sub> readings thanks to UV module
- CO overload protection and fresh air purging without measurement interruption
- Gas cooler incl. 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 <sub>2</sub>	0...21 %	0,01 vol. %	± 0,3 vol. %	✓	
CO (H <sub>2</sub> -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 <sub>2</sub> (NDUV)	0...300 ppm (2.000 ppm)	0,1 ppm	± 3 ppm / 1 % of reading*	✓	
SO <sub>2</sub> (NDUV)	0...300 ppm (2.000 ppm)	0,1 ppm	± 3 ppm / 1 % of reading*	✓	
Other measured variables	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   ΔP	± 100 hPa	0,01 hPa	± 0,5 hPa o 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 %
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>

### 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 NO<sub>2</sub>/SO<sub>2</sub> 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 NO<sub>2</sub> /SO<sub>2</sub> particles and of pistol grip probe with high-temperature probe tip / thermocouple (0-1.100°C).

