

# TECHNICAL DATA SHEET

## ecom-B COMPACT FLUE GAS ANALYSIS

Small, compact and ideal for inspections and short-term measurements on small combustion systems

The ecom-B stands for durability thanks to long-life sensors and a robust aluminium housing that is ideally suited to the demands of everyday use. The special condensate trap with an expandable and replaceable pad effectively protects the interior and the sensors from moisture. With a backlit display, backlit keypad, 220 mm probe and a 3-chamber hose with condensate trap, the compact device weighing just 1.5 kg offers a great deal of functionality. Magnets on the back enable convenient hands-free measurements - ideal for flexible use.



### Technical data

Measured values	Range	Resolution	Accuracy *= Higher value prevails	
✓ = Standard; • = Optional EC				
Maximum number of measurable gas components				3
O <sub>2</sub>	0...21 %	0,1 vol. %	± 0,3 vol. %	✓
CO (H <sub>2</sub> -comp.)	0...2.500 ppm (10.000 ppm)	1 ppm	± 20 ppm / 5 % of measured value*	✓
CO (n. H <sub>2</sub> -comp)	0...20.000 ppm	1 ppm	± 40 ppm / 10 % of measured value*	•
NO	0...5.000 ppm	1 ppm	± 5 ppm / 5 % of measured value*	•
Other measured variables	Range	Resolution	Accuracy *= Higher value prevails	
T-Gas	0...500 °C	1 °C	± 2 °C / 1,5 % of measured value*	✓
T-Air	0...99 °C	0,1 °C	± 1 °C	✓
Pressure   ΔP	± 100 hPa	0,01 hPa	± 0,5 hPa / 1 % of measured value*	✓
Calculation values		Range		
CO <sub>2</sub>		0...CO <sub>2 max</sub>		✓
Combustion efficiency (ETA)		0...120 %		✓
Excess air (Lambda)		>1		✓
Losses qA		0...100 %		✓
CO <sub>(u)</sub> undiluted		x ppm		✓
Dew point		x° C		✓
mg/m³		x mg/m³		✓
mg/kWh		x mg/kWh		✓
O <sub>2</sub> reference		x % O <sub>2</sub>		✓

### Equipment

Gas sampling	
Unheated probe 220 mm, Ø 8 mm with fixation cone	✓
3-chamber sampling tubing 2,2 m	✓
Measurement gas preparation	
Manual condensate trap with condensate tampon	✓
Combustion air temperature measurement	
T-room sensor with 3 m cable and fixation cone	✓
Operation safety	
Pressure equalizing gas duct plate	✓
Temperature display for stream core search	✓
CO switch-off by concentration overload	✓
Fresh air purge by CO exceeding	✓
Fresh air purge after measuring operation	✓
Data processing	
IR interface for optional printer	✓
Infrared thermal printer	•
Internal memory for up to 300 measurements	✓
Wireless data interface (BLE) for connection with mobile devices	✓
Serial interface	✓
Data display / input	
LCD display, backlit, zoomable	✓
Backlit keyboard	✓
Transport	
Textile transport bag	•
Proof of conformity / calibration	
EN 50379-2	✓
1. BImSchV	✓
Certificate after climate chamber calibration	✓

As of 06/25, design and technical changes as well as possible printing errors are subject to change.



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