HEATING

IMR1500

The compact flue gas analysis system

PRODUCT ADVANTAGES

- Service-software including automatic self-check
- USB 2.0 Interface for data transmission
- IR-interface for data transmission to an external thermo printer
- Condensate trap and particle filter for efficient gas conditioning
- Power supply via AC or battery
- Various software languages available
- 7 fuel types programmed for calculation of the CO_2 content

PORTABLE FLUE GAS ANALYSER

The IMR1500 is a small, light and easy-to-use flue gas analyzer.

Due to the size, the IMR1500 can be carried around easily and used even in hard-to-reach locations. The ideal instrument for fast and accurate measurements.

TECHNICAL DATA

VARIABLE	METHOD	RESOLUTION	DEVIATION	RANGE
CO_2 (Carbon dioxide)	calculated	0,01 vol%	± 0.2%	0–CO_2 max.[1] [4]
O_2 (Oxygen)	electrochem. sensor	0,01 vol%	± 0.2%	0–20.95 vol%
NO (Nitric oxide)*	electrochem. sensor	1 ppm, mg, mg (O_2), mg/kWh	Ω [2]	0–4 000 ppm [3]
CO (Carbon monoxide) H_2 compensated	electrochem. sensor	1 ppm, mg, mg (O_2), mg/kWh	Ω [2]	0–4 000 ppm [3]
CO (Carbon monoxide)*	electrochem. sensor	1 ppm, mg, mg (O_2), mg/kWh	Ω [2]	0 % ... 10 %
SO_2 (sulfur dioxide)*	electrochem. sensor	1 ppm, mg, mg (O_2), mg/kWh	Ω [2]	0 ... 4 000 ppm [3]
NO_2 (Nitrogen dioxide)*	electrochem. sensor	1 ppm, mg, mg (O_2), mg/kWh	Ω [2]	0 ... 500 ppm [3]
°C Air temperature	Thermo couple NiCr-Ni	1 K	± 0.5 K	-20 to +120 °C
°C Flue gas temperature	Thermo couple NiCr-Ni	1 K	± 2%	-20 to 1 000 °C
hPa Pressure/Draft	Internal sensor	0.01 hPa	± 2%	± 60 hPa [3]
λ (Lambda)/excess air	calculated	0.01	± 0.5	1.00–9.99
qA Flue gas losses	calculated	0.01	± 0.5%	0–99.9%
ETA Efficiency	calculated	0.01	± 0.5%	0–99.9%
The analyzer complies with EN 50379-2, TÜV Prüf-Nr. By RgG 146				

FURTHER TECHNICAL DATA	
Weight	2.5 kg
Dimensions	200 x 165 x 80 mm (L x W x D)
Power supply	85–285 V/60 Hz
Operating temperature	+5 °C to +40 °C
Pump capacity	72 l/h
Max. draft	-0.3 bar
Max. pressure	0.3 bar
Storage temperature range	-20 °C to +50 °C

* Option
1) dependent on fuel
2) Ω = 0–200 ppm ± 2 ppm > 200 ppm ± 1% of reading
3) other measuring ranges on request
4) only in combination with O_2 sensor

DIN EN 50379-2