



## IMR1100

Handheld Flue Gas Analyser

### PRODUCT ADVANTAGES

- TÜV certified according to EN 50379-2.
- Bluetooth communication for data transfer between IMR1100 and an external printer or smart phone
- Service software for automatic instrument check
- Factory pre-calibrated sensors for on-site replacement\*\*
- USB interface for external data acquisition
- IR-interface for data transmission to an external thermal printer\*
- Integrated condensate trap and particle filter for efficient gas conditioning
- 10 hours of operation on battery power, lithium-ion battery without memory effect
- Display has 9 languages included, display with ZOOM function
- Complete set ready-to-use for all contingencies in one case

### IMR1100

The IMR1100 is a small, lightweight and easy-to-use flue gas analyzer.

Due to the size, the IMR1100 can be carried around easily and used even in hard-to-reach locations. The IMR1100 is the ideal analyzer for residential as well as industrial applications.





## TECHNICAL DATA

| VARIABLE   | METHOD                 | RESOLUTION                                    | DEVIATION       | RANGE                                |
|--|------------------------|---|-----------------|--------------------------------------|
| CO <sub>2</sub> (Carbon dioxide)                               | calculated             | 0.1 Vol.-%                                    | ± 0.2%          | 0–CO <sub>2</sub> max. <sup>1)</sup> |
| O <sub>2</sub> (Oxygen)  | electrochemical sensor | 0.1 Vol.-%                                    | ± 0.2%          | 0–25 Vol.-%                          |
| NO (Nitric oxide)*   | electrochemical sensor | 1 ppm, mg,<br>mg (O <sub>2</sub> ),<br>mg/kWh | Ω <sup>2)</sup> | 0–5 000 ppm                          |
| CO (Carbon monoxide)<br>H <sub>2</sub> compensated             | electrochemical sensor | 1 ppm, mg,<br>mg (O <sub>2</sub> ),<br>mg/kWh | Ω <sup>2)</sup> | 0–8 000 ppm                          |
| °C Air temperature   | Pt 100                 | 0.1 K   | ± 0.5 K         | -20 to +120 °C                       |
| °C Flue gas temperature  | Thermocouple NiCr-Ni   | 0.1 K   | ± 0.5 K         | -100 to +1 000 °C                    |
| hPa Pressure/Draft   | Internal sensor        | 0.01 hPa                                      | ± 2%            | ± 60 hPa                             |
| λ (Lambda)/Excess air  | calculated             | 0.1   | ± 0.5           | 0.00–9.50                            |
| qA Flue gas losses   | calculated             | 0.1   | ± 0.5%          | 0–99.9%                              |
| ETA Efficiency   |                        |   |                 |                                      |
| The analyzer complies with EN 50379-2, TÜV Prüf-Nr. By RgG 292 |                        |   |                 |                                      |

## FURTHER TECHNICAL DATA

|                                  |   |
|----------------------------------|---|
| <b>Weight</b>                    | 750 g (Complete package incl. case: 4.8 kg) |
| <b>Dimensions</b>                | 230 x 110 x 70 mm (H x W x D)               |
| <b>Power supply</b>              | 100–240 V/0.6 A AC                          |
| <b>Operating temperature</b>     | -5 °C to +45 °C                             |
| <b>Pump capacity</b>             | 60 l/h                                      |
| <b>Max. draft</b>                | -0.3 bar                                    |
| <b>Max. pressure</b>             | 0.3 bar                                     |
| <b>Storage temperature range</b> | -20 °C to +50 °C                            |

\* Option

\*\* recommended only for trained personnel

1) dependent on fuel

2) Ω = 0–200 ppm ± 2 ppm > 200 ppm ± 5% of reading



DIN EN 50379-2

