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NOVAcompact

The Masterpiece
for Professionals.



**Innovative fluegas analysis
in a high performance compact case.**



NOVAcompact

Robust, easy handling and reliable

This analyzer is mounted inside a small, rugged aluminium framed case (6.8 kg weight) and the technology inside the unit contains everything professional installers need to measure all fuel type combustions, including cogeneration heat and power engines.

These are your outstanding advantages:

- Compact, robust aluminium framed case
- LED-illuminated, dirt resistant key pad
- Integrated thermal speedprinter
- 250 mm probe with flexible hose and stainless steel cone
- SD-card holder and Mini-USB interface
- Lithium-Ion rechargeable battery

Optional equipment:

- Active gas cooler for longer lasting analysis
- AUX-connector for additional transducers/sensors
- Bluetooth
- Pipe tests according to German TRGI/TRF
- Gas/air velocity measurements



A more detailed look at the unit

Some outstanding features



Illuminated Display

Comfortable operation even in dark areas thanks to illuminated key pad and TFT colour display



Storing, transferring and printing of measured data

SD-card, Mini-USB, Bluetooth for data transfer to Smartphone, Tablet, PC – or print outs on integrated printer



Optimal protection

Robust, compact case in aluminium framed design protects the hardware and offers real added value



Documentation made easy

Integrated thermal speedprinter for fast documentation of measured data



Rugged probe

250 mm probe with flexible hose, 2,2 m long and stainless steel cone



Practical accessory

Optional clip-on compartment for additional parts and accessories

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Technical Data

Measurement components	Range	Accuracy
Oxygen (O ₂)	0 ... 21,0 Vol.-%	± 0,2 Vol.-% abs.
Carbon monoxide (CO) (H ₂ -compensated)	0 ... 10.000 ppm, overload up to 20.000 ppm*	± 10 ppm or 5 % reading up to 10.000 ppm or 10 % reading up to 20.000 ppm**
Nitric monoxide (NO)	0 ... 1.000 ppm, overload up to 5.000 ppm*	± 5 ppm or 5 % reading up to 1.000 ppm or 10 % reading up to 5.000 ppm**
Amount of leakage (acc. TRGI)	0 ... 8 l/h	± 0,2 l/h, 5 % reading**
Loading test (acc. TRGI)	0 ... 1.500 mbar	± 4 mbar, 2 % reading**
Leakage test (acc. TRGI)	0 ... 200 mbar	± 0,5 mbar, 3 % reading**
Gas flow velocity measurement (pitot tube)	1 ... 40 m/s	1 m/s bzw. ± 1 % reading**
Stack gas temperature (T.Gas)	0 ... +800 °C (Stainless Steel tube), 0 ... +1.100 °C (with suitable material of sampling tube)	± 2 °C < 200 °C, 1 % reading > 200 °C**
Differential temperature	up to +800 °C or up to +1.100 °C (with suitable material of sampling tube)	± 1 °C
Combustion air temperature (T.Air)	0 ... 100 °C	± 1 °C
Draft/Diff. pressure	-120 ... +120 hPa	0,02 hPa, 1 % reading**

Calculated values: (fuel type depending)	Range	Accuracy
Carbon dioxide (CO ₂)	0 ... CO ₂ max.	± 0,3 Vol.-%
Losses (qA)	0 ... 99,9 %	
Efficiency (η)	0 ... 120 %	
Air Ratio	1 ... 99,9 %	
Excess Air	0 ... 99,9 %	

General specifications	
Operation temperature	+5 ... +45 °C; RH up to 95 %, none condensing
Ambient conditions	not in aggressive, corrosive or high dust ambience, not for use in hazardous areas
Power supply	Lithium-Ionen-battery 10 h operation, 2 ... 3 h with gas cooler
Mains	Wall-plug grid power supply 100 ... 240 V AC, 50 ... 60 Hz, 1,0 A, 12 V DC, 2 A
Dimensions (W x H x D)	423 x 240 x 180 mm
Weight	appr. 6,8 kg (with 2 sensors, probe, power supply, case)

MRU – Competence in gas analysis. For over 35 years.

MRU · Messgeraete fuer Rauchgase und Umweltschutz GmbH

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