



NOVAcompact

Small and robust - portable combustion analyzer

O₂ | CO₂ | CO | NO_x | NO



NOVAcompact

Robust, Compact, Reliable

The NOVAcompact offers reliable measurement results for domestic boiler applications as well as CHP applications in a small, compact and robust, portable transport case

NOVAcompact advantages:

- Compact, robust and handy transport case
- Durable, dirt resistant, illuminated keypad
- Integrated thermal speed printer
- Compact extraction probe with stainless-steel cone
- SD card reader for additional data storage and easy data handling
- Mini-USB for battery charging and PC connection
- Lithium-Ion battery

Optional features:

- Active peltier gas cooler for longer measurements
- AUX-port for additional external sensors
- Bluetooth for PC or APP connection
- Flow velocity measurement
- 4Pa-Test

Analyzer details

Highlight overview



Illuminated display

Easy handling, even in dark corners, illuminated keypad and well readable, color display



Save, transfer and print measurement data

SD-card reader, mini USB, Bluetooth for data transfer to a smart-phone, tablet or PC – or printing on the integrated printer



Optimal protection

Robust and compact transport case protects the measurement equipment and can even be used as a step stool



Easy documentation

Integrated thermal speed printer for fast documentation of measurement results



Sturdy probe

Compact extraction probe with stainless-steel cone – with 9" stainless-steel probe tube and 7 foot sampling line



Accessory

Optional add on storage box for additional storage space

NOVAcompact

TECHNICAL SPECIFICATIONS

Measurement component	Measuring range	Resolution	Accuracy
O ₂ Oxygen (Long Life)	0 ... 21%	0.1 %	± 0.2 Vol-% abs.
CO Carbon monoxide (H2 Compensated)	0 ... 10,000 / 20,000 ppm *	1 ppm	± 20 ppm or 5 % reading < 10,000 ppm / 10 % reading > 10,000 ppm
CO Carbon monoxide (low)	0 ... 500 with **	0.1 ppm	± 2.0 ppm or 5 % reading
CO Carbon monoxide	0 ... 40,000 / 100,000 ppm *	1 ppm	± 0.02% or 5 % reading < 0.4% / 10 % reading > 0.4%
NO Nitric oxide	0 ... 1,000 / 5,000 ppm *	1 ppm	± 5 ppm or 5 % reading < 1,000 ppm / 10 % reading > 1,000 ppm
NO Nitric oxide (low)	0 ... 300 with **	0.1 ppm	± 2.0 ppm or 5 % reading

Other measured components	Measuring Range	Resolution	Accuracy
Stack / Flue gas temperature	32 ... 1,472°F (0 ... 800°C) with stainless steel	1 °F	± 4°F ... < 392°F / 1 % reading > 392°F
	32 ... 2,012°F (0 ... 1100°C) with Inconel		± 4°F ... < 392°F / 1 % reading > 392°F
Primary air / Ambient air temperature	32 ... 212°F (0 ... 100 °C)	1°F	± 2°F
Differential temperature	Up to 2,012°F (0 ... 1100°C) (with suitable material of sampling tube)	1°F	± 4°F ... < 392°F / 1 % reading > 392°F
Stack draft	+/- 40 inH2O (120hPa)	1 Pa	± 0.02 inH2O or 1% reading
Differential pressure	+/- 120 inH2O (120hPa)	1 Pa	± 0.02 inH2O or 1% reading
Gas flow velocity measurement	3 ... 100 m/s (using Pitot tube)	0.1 m/s	

Calculated values	Range	Calculated values	Range
Carbon dioxide	0 ... CO2 max.	Air Ratio (Lambda)	1 ... 9.99
Heat losses qA	0 ... 99.9 %	Excess Air	0 ... 99.9
Efficiency	0 ... 120 %	CO/CO2 ratio	0 ... 10

GENERAL SPECIFICATIONS	
Max suction range gas pump	60 inH2O (150 hPa)
Typical gas flow	16 gal/h (60 l/h)
Internal memory	16,000 data sets
Data transmission	via USB, SD Card or Bluetooth
Interfaces	SD card reader, USB, Bluetooth
Display	3.5" TFT color display
Operation temperature	41°F ... 113°F (5 ... 45°C) max. 95 % RH, none condensing
Storage temperature	-4°F ... 122°F (-20°C ... 50°C)
Ambient conditions	not in aggressive, corrosive or high dust ambience, not for use in hazardous areas
Battery operated	Lithium-Ion battery, 10 h operation time
Grid power supply	100 - 240 V AC / 50 ... 60 Hz 2.0A
Protection class	IP 30
Weight	approx. 16.5 lbs.
Dimensions	(W x H x D) 16.53 x 10.23 x 7.08 inch
TÜV approval	ByRgG 280 acc. 1. BlmSchV and EN 50379

Data to change without notice * Maximum short term overload ** These are not additional sensors, selected sensors are used with special calibration



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