

# THE ULTIMATE RUGGED AND COMPACT ANALYZER FOR DROEESSIONALS



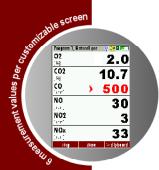


Over 30 years of innovative gas analysis!

- Low cost of ownwership
- Extremely user friendly
- +4 Years O<sub>2</sub> sensor Life Expectancy
- Active CO sensor protection
- Rugged aluminum tarnsport case

# **FOR PROFESSIONALS**

who are looking for an extremely compact and rugged analyzer
Equipped with everything needed for daily checks for combustions
of all kinds - Intuitive and user-friendly



DC Software for regiment of the part of th

## Simultaneous measurements of up to 4 gas components!

- O2, CO, CO2, NO, CO-high, & CO-very high,
  - Up to 4 electrochemical sensors
  - Low CO and NO ranges are available
- Gas temperature measurement up to 2,012°F (use stainless steel up to 1,200°F, use Inconel tubes up to 2,012°F)
- Large condensate separator with PTFE (Teflon) coated filter
- Air purging pump for CO-sensor protection
- Internal data storage for up to 16,000 measurements!
- High energy Li-lon battery (up to 15 hours operation time)
- Color backlit 3.5" TFT display with zoom function
- Customizable screen settings
- Durable and dirt resistant keypad
- Built in high speed printer
- Integrated SD card reader for additional data storage and data transfer to PC







### Also measures...

- Combustion air temperature
- Stack gas temperature
- Stack draft
- Differential pressure
- Differential temperature

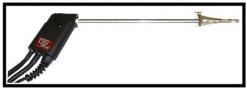
### And calculates...

- OCO2
- CO/CO2 ratio
- Dew point
- Excess air and air ratio (Lambda)
- Combustion efficiency
- Heat losses

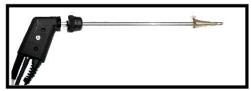
DON'T COMPROMISE ACCURACY FOR PORTABILITY!

The NOVA compact gives you the best of both!

### PROBES AND PROBE TUBES



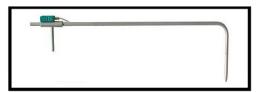
Standard probe: 10" insertion; 7.2' rugged sampling line with K-Type t/c (1,200°F max) and silicone hose for combustion applications



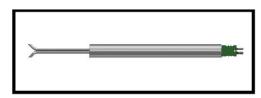
Industrial probe for interchangeable probe tubes with 7.2' or 16' rugged, braided sheathed sampling line with K-Type t/c and Viton hose for combustion and emission measurements



Probe tubes (4" to 80" long) in SS (1,200°F) or Inconel (2,000°F) Also available with sintered metal filter



L-Type SS with or without K-Type t/c In sizes from 4" (0.12 $\emptyset$ ) to 79" (0.47  $\emptyset$ )



S-Type SS with K-Type t/c (59" lead) and 1.1"Ø protection tube Available in 19" or 39" lengths (0.31"Ø)



PITOT TUBES





### **TECHNICAL SPECIFICATIONS**

NOVAcompact analyzer	Portable analyzer with up to 4 electrochemical sensors
Fuel types	Natural gas, liquid gas, oil light, pellets, wood, coal, and user definable fuels

Measurement components		Measuring range	Accuracy
O2 CO	Oxygen Carbon monoxide (H2 compensated)	0 21.0 Vol-% 0 4,000 ppm overload 20,000ppm *	± 0.2 Vol-% abs. ± 20 ppm or 5 % reading < 4,000 ppm / 10 % reading > 4,000 ppm
СО	Carbon monoxide low	0 500 ppm with 0.1 ppm resolution **	± 2.0 ppm or** 5 % reading
СО	Carbon monoxide very high	0 40,000 ppm overload 100,000ppm *	± 0.02% or 5 % reading < 0.4% / 10 % reading > 0.4%
NO	Nitric oxide	0 1,000 ppm overload 5,000ppm *	± 5 ppm or 5 % reading < 1,000 ppm / 10 % reading > 1,000 ppm
NO	Nitric oxide low	0 300 ppm with 0.1 ppm resolution **	± 2.0 ppm or** 5 % reading

<sup>\*\*</sup>are not separate sensors; selected sensors are used with special calibration

Stack / Flue gas temperature	0 1,200°F / 2,012°F (with stainless steel / Inconel stee	± 4°F < 392°F / 1 % reading > 392°F el tube)
Primary-air / Ambient temperature	0 212°F	± 2°F
Differential temperature	up to 2,012°F (with suitable material of sampling)	± 4°F < 392°F / 1 % reading > 392°F ng tube)
Stack / Differential pressure	+/- 40 inH2O (100hPa)	
Gas flow velocity measurement	1 40 m/s (using Pitot tube)	

### Calculated values (fuel type dependent)

Carbon dioxide	0 CO2 max.	Air Ratio (Lambda)	1 9.99
Heat losses qA	0 99.9 %	Excess Air	0 99.9
Efficiency	0 100 % / 120 %	CO/CO2 ratio	0 10

### **General specifications**

Operation temperature	41°F 113°F, max. 95 % RH, non condensing
Storage temperature	-4°F 122°F
Ambient conditions	not in aggressive, corrosive or high dust environments, not for use in hazardous areas
Power supply	Lithium-Ion battery, 10 h operation, (with gas cooler 2 3 h)
Grid power supply	100 - 240 Vac / 50 60 Hz / 60 W
Weight	approx. 15lbs (6.8 kg)
Dimensions	16.65" x 9.45" x 6.93" (W x H x D) 423 x 240 x 176 mm

Data subject to change without notice



<sup>\*</sup>overload range recommend only for short time measurements