

# NOVA

Dependable Gas Analysis Solutions



## 362 SERIES

### PORTABLE FLUE GAS ANALYZER FOR OXYGEN, CARBON MONOXIDE, AND NOx

#### APPLICATIONS

Analysis of oxygen (O<sub>2</sub>), carbon monoxide (CO), and oxides of nitrogen (NO<sub>x</sub> as NO). For checking combustion efficiency, air infiltration, NO<sub>x</sub> emissions, and burner & control performance of furnaces, heaters, and boilers. May be used in commercial, industrial and residential applications.

#### FEATURES

- Long life electrochemical sensors for each gas
- Rugged design that is easy to operate and maintain
- Fast warm-up and response
- Digital readout meter with backlight
- Rechargeable battery operation
- Built-in sample pump, filter, flow meter, and continuous condensate removal
- Weatherproof (WP) cabinet with clear Lexan cover
- Stainless steel probe with sample hose
- For use on any fuel
- Dual CO range: 0-2000 PPM and 0-4.00% CO
- Rapid CO & NO<sub>x</sub> reading recovery on 'overdose'
- Pays for itself in months through fuel savings

#### OPTIONS

- Recorder outputs of 0-1V or 4-20 mA
- Stack temperature readout (362T)
- Sample pre-cooler
- Suitcase (K) style cabinet available
- NO<sub>x</sub> as NO + NO<sub>2</sub>
- Detachable/portable data logger

#### CALIBRATION

- Air for O<sub>2</sub> span, CO zero and NO<sub>x</sub> zero
- Analyzed mixture of CO and NO in nitrogen for CO and NO span, and O<sub>2</sub> zero

NOVA ANALYTICAL SYSTEMS

[www.nova-gas.com](http://www.nova-gas.com)



362WP Weather Proof Enclosure



362K Suitcase Enclosure



Optional  
Sample  
Precooler

## DESCRIPTION

The Nova 362 Series are portable analyzers that can provide a detailed analysis of flue gas composition. They have been designed to be accurate, reliable, and easy to use and maintain. The Model 362 has customer-replaceable sensors, which respond quickly to the O<sub>2</sub>, CO, and NO<sub>x</sub> present in the flue gas sample. The sensor life expectancy is between 3-4 years.

In operation, a built-in sample pump draws in the flue gas sample through the S.S. probe, 12 ft. sample hose, condensate removal filter, secondary filter, flow meter, and then on to the three sensors. The detected O<sub>2</sub>, CO, and NO are displayed on separate LCD digital meters, which have a switchable backlight for use in dark areas. The analyzer can be operated for long periods unattended.

The Nova 362 can also optionally indicate net stack temperature for doing fuel efficiency calculations (362T). The temperature sensor is built into the sampling probe. Efficiency charts for each fuel are provided.

The rechargeable battery provides enough power for about 16 hours of continuous operation and the analyzer can be used while it is being recharged. A red LED indicates when to recharge and a green LED verifies that it is receiving recharging power. The battery recharger is included with the analyzer. The rugged dust-tight and water resistant case is ideal for use in harsh environments.

## SPECIFICATIONS

*Nova reserves the right to specification changes which may occur with advances in design without prior notice.*

### Description

<b>Method of Detection:</b>	Customer replaceable electrochemical O <sub>2</sub> , CO and NO sensor.
<b>Ranges Available:</b>	0-25.0% O <sub>2</sub> ; 0-2000 PPM and 0-4.00% CO (switch selectable), 0-200 to 0-2000 PPM NO <sub>x</sub> (as NO); 0-1800°F (0-1000°C) net stack temp (362T)
<b>Resolution:</b>	0.1 % O <sub>2</sub> ; 1 PPM on CO and NO <sub>x</sub>
<b>Accuracy and Repeatability:</b>	< 1% of O <sub>2</sub> ; ± 10 PPM CO; ± 3 PPM NO <sub>x</sub>
<b>Drift:</b>	± 2% of full scale per 8 hours of continuous operation
<b>Response Time (T-90):</b>	10-12 seconds for O <sub>2</sub> ; 20-30 seconds for CO and NO <sub>x</sub>
<b>Ambient Temperature Range:</b>	32° to 105°F (0°-40°C)
<b>Linearity:</b>	± 1% of full scale of each gas measured
<b>Size and Weight:</b>	WP style - approx. 18" W x 12" L x 5¼" H @ 13 lbs (45 x 30 x 13 cm @ 6 kg) K style - approx. 10 1/2" W x 14" L x 6" H @ 13 lbs (27 x 35 x 15 cm @ 6 kg)
<b>Power:</b>	AC/DC operation, 115VAC 60Hz for recharging (Other voltages available)
<b>Output Options:</b>	4-20 mA or 0-1 VDC

## UNIQUE APPLICATIONS

All Nova analyzers are built using proven technologies and techniques. If this product does not suit your application, please contact Nova at 1-800-295-3771. In many cases, we are able to build an analyzer specific to your needs.



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