

# NOVA

Dependable Gas Analysis Solutions



## 360 SERIES PORTABLE FLUE GAS ANALYZERS FOR OXYGEN AND CARBON MONOXIDE

### APPLICATIONS

Analysis of oxygen (O<sub>2</sub>) and carbon monoxide (CO). For checking combustion efficiency, air infiltration, and burner & control performance of furnaces, heaters and, boilers. May be used in commercial, industrial and residential settings.

### FEATURES

- Rugged design that is easy to operate and maintain
- Fast warm-up and response
- Digital readout meter with backlight
- Rechargeable battery operation
- Built-in pump, filter, flow meter, and condensate removal
- Weatherproof (WP) cabinet with clear Lexan cover
- Stainless steel probe with sample hose
- For use on any fuel
- Long life detector cells for O<sub>2</sub> and CO (customer replaceable)
- Dual CO range: 0-2000 PPM and 0-4.00% CO
- Rapid CO reading recovery on CO 'overdose'
- Pays for itself in months through fuel savings

### OPTIONS

- Recorder outputs of 0-1V or 4-20 mA
- Stack temperature readout (360T)
- Sample pre-cooler
- Suitcase (K) style cabinet available
- AC only power operation, with HD sample pump
- High CO alarm with LED
- Detachable/portable data logger

### CALIBRATION

- Air for O<sub>2</sub> span and CO zero
- Analyzed mixture of CO in nitrogen for CO span and O<sub>2</sub> zero

NOVA ANALYTICAL SYSTEMS

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



360WP Weather Proof Enclosure



360K Suit Case Enclosure



Optional Sample Precooler

## DESCRIPTION

The Nova 360 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 sensors respond quickly to the oxygen and CO present in the flue gas sample. The typical sensor life expectancy is between 3-4 years and are customer-replaceable.

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 and flow meter, then on to the three sensors. The detected O<sub>2</sub> and CO are displayed on separate LCD digital meters, which have a switchable backlight for use in dark areas. A special water separating filter and separate drain pump continuously remove condensate from the sample so the analyzer can be operated for long periods unattended.

The Nova 360T also indicates net stack temperature for doing fuel efficiency calculations. The temperature sensor is built into the sampling probe. Efficiency charts for each fuel are provided.

A rechargeable 'gel cell' 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 charger is included with the analyzer. The rugged dust-tight and water resistant case is suitable 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> and CO sensor.
<b>Ranges Available:</b>	0-25.0% O <sub>2</sub> , 0-2000 PPM to 0-4.00% CO (switch selectable), 0-1800°F (0-1000°C) net stack temperature (360T)
<b>Resolution:</b>	0.1 % O <sub>2</sub> , 1 PPM on CO
<b>Accuracy and Repeatability:</b>	± 1%
<b>Drift:</b>	± 1% of full scale per 8 hours of continuous operation
<b>Response Time (T-90):</b>	10-15 seconds for O <sub>2</sub> and CO
<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. 10" L x 7½" H x 6½" D @ 8 lbs (25 x 19 x 16 cm @ 3.6 kg) K style - approx. 14" L x 6" H x 10½" D @ 8 lbs (35 x 15 x 26 cm @ 5.5 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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