



Dependable Gas Analysis Solutions

## 309A SERIES

### PORTABLE ANALYZER FOR CARBON DIOXIDE & OXYGEN



#### APPLICATIONS

For checking carbon dioxide (CO<sub>2</sub>) and oxygen (O<sub>2</sub>) in controlled atmosphere (C/A) storage rooms, welding gas mixtures, and other process applications.

#### FEATURES

- Rugged design that is easy to operate and maintain
- Fast warm-up and response
- Solid state infrared detector for CO<sub>2</sub>
- Long-life electrochemical sensor for O<sub>2</sub>
- Digital readout meter with backlight
- Rechargeable battery operation
- Built-in sample pump, filter, and flowmeter
- Weatherproof (WP) cabinet with clear Lexan cover

#### OPTIONS

- Recorder outputs of 0-1V or 4-20mA
- Sample pre-cooler for hot samples
- Stainless steel probe with sample hose
- Condensate removal for wet applications
- Suitcase (K) or bench top (BT) style cabinets available
- AC power only operation
- CO<sub>2</sub> and O<sub>2</sub> alarms with LED
- Detachable/portable datalogger

#### CALIBRATION

- Air for CO<sub>2</sub> zero and O<sub>2</sub> span.
- Analyzed calibration gas for CO<sub>2</sub> span and O<sub>2</sub> zero.



Weatherproof (WP) Enclosure



Bench Top (BT) Enclosure



Suitcase (K) Enclosure



Optional Precooler  
for hot or wet  
sample gases

NOVA ANALYTICAL SYSTEMS

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

## DESCRIPTION

The Model 309A Series Portable CO<sub>2</sub> and O<sub>2</sub> Analyzer is a rugged, fast-responding, and accurate instrument for conveniently monitoring the atmosphere in an apple storage C/A room. The standard range of the analyzer is 0-10% CO<sub>2</sub> and 0-25% O<sub>2</sub>. Other ranges are available. The Model 309A series utilizes a single cell infrared detector for CO<sub>2</sub> and a customer replaceable electrochemical sensor for O<sub>2</sub>. Neither sensor is affected by water vapor or other gas vapors in the sample gas. The O<sub>2</sub> sensor typically lasts 3-4 years.

In operation, a built-in sample pump draws in the gas sample through the sample hose, filter/condensate trap, secondary filter and flow meter then on to the CO<sub>2</sub> and O<sub>2</sub> detectors. The gas readings are then displayed on LCD digital meters which have switchable backlights for use in dark areas.

A rechargeable battery provides enough power for about 8 hours of continuous operation and the analyzer can be used while it is being recharged. A red LED tells when to recharge and a green LED verifies that it is receiving recharging power. The recharger is included.

## SPECIFICATIONS

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

<b>Method of Detection:</b>	NDIR infrared detector for CO <sub>2</sub> ; electrochemical O <sub>2</sub> sensor
<b>Ranges Available:</b>	0-3000 PPM, 0-5000 PPM, 0-1%, 0-10%, 0-20%, 0-50% and 0-100% CO <sub>2</sub> 0-25% O <sub>2</sub> (other ranges available)
<b>Resolution:</b>	0.1 % on versions or 10 PPM on PPM versions
<b>Accuracy and Repeatability:</b>	Within ± 2% full scale
<b>Drift:</b>	Within 1% full scale per 8 hours of continuous operation
<b>Response Time (T-90):</b>	O <sub>2</sub> less than 10 seconds; CO <sub>2</sub> less than 30-40 seconds to T-90
<b>Ambient Temperature Range:</b>	40° to 120°F (4° to 49°C)
<b>Linearity:</b>	± 1.0% of full scale
<b>Size and Weight:</b>	WP style - approx. 11½" L x 8" W x 7¼" H @ 8 lbs (29 x 20 x 18 cm @ 3.6 kg) K style - approx. 14" L x 10½" W x 6" H @ 12 lbs (36 x 27 x 15 cm @ 5.5 kg) BT style - approx. 8" L x 9" H x 10" D @ 12 lbs (20 x 23 x 25 cm @ 5.5 kg)
<b>Power:</b>	AC/DC operation. 115VAC 60 Hz 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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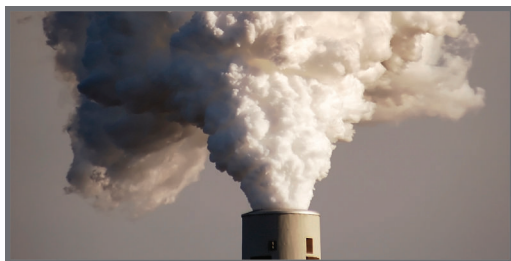
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Dependable Gas Analysis Solutions



## 313 SERIES PORTABLE FLUE GAS ANALYZER FOR OXIDES OF NITROGEN

### APPLICATIONS

Analysis of oxides of nitrogen ( $\text{NO}_x$ ) such as nitric oxide ( $\text{NO}$ ) and/or nitrogen dioxide ( $\text{NO}_2$ ). For boiler, furnace, or engine exhaust monitoring and analysis.

### FEATURES

- $\text{NO}_x$  can be read as  $\text{NO}$ ,  $\text{NO}_2$ , or as total
- Rugged design that is easy to operate and maintain
- Disposable, long life electrochemical  $\text{NO}$  and  $\text{NO}_2$  sensors
- Digital meter readout with backlight
- Rechargeable battery operation
- Built-in sample pump, filter, and flowmeter
- Active condensate removal
- Rapid reading recovery after  $\text{NO}_x$  'overdose'
- Weatherproof (WP) cabinet with clear Lexan cover
- Stainless steel probe with sample hose

### OPTIONS

- Recorder output 4-20 mA
- Stack temperature readout (313T)
- Sample pre-cooler
- Suitcase (K) style cabinet available
- $\text{NO}$ ,  $\text{NO}_2$  or  $\text{NO}_x$  alarms with LED
- Detachable/portable data logger

### CALIBRATION

- Air for zero.
- Analyzed calibration gas mixtures of PPM  $\text{NO}$  and PPM  $\text{NO}_2$  in nitrogen for span.



Weatherproof (WP) Enclosure



Suitcase (K) Enclosure



Optional Precooler  
for hot or wet  
sample gases

NOVA ANALYTICAL SYSTEMS

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

## DESCRIPTION

The Nova 313 Series Portable Flue Gas Analyzer for NO, NO<sub>2</sub>, or NO<sub>x</sub> utilizes reliable, stable NO and/or NO<sub>2</sub> sensors which respond quickly to the NO or NO<sub>2</sub> present in flue gases or engine exhaust. NO is the major component (90-95%) of the NO<sub>x</sub> found in flue gases or engine exhaust (except diesel).

In operation, a built-in sample pump draws in the gas sample through the S.S. probe, 12 ft sample hose, condensate removal filter, secondary filter and flowmeter, then on to both sensors. The output of each sensor is then amplified and displayed on a large LCD digital meter with backlight. A selector switch allows the two gases to be read individually or as a total (NO<sub>x</sub>).

The rechargeable battery provides enough power for about 20 hours of continuous operation and the analyzer can be used while it is being recharged. A red LED tells when to recharge and a green LED verifies that it is receiving recharging power. The recharger plus a stainless steel probe with 12 ft. (4 m) hose is included.

## SPECIFICATIONS

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

### Description

**Method of Detection:** Customer replaceable electrochemical nitric oxide and nitrogen dioxide sensors  
Expected life 2-3 year each

**Ranges Available:** 0-2000 PPM NO; 0-800 PPM NO<sub>2</sub>; 0-2000 PPM NO<sub>x</sub> (0-5000 PPM available)  
Ranges switch selectable

**Resolution:** 1 PPM on 0-2000 PPM; 10 PPM on higher ranges

**Accuracy and Repeatability:** Better than 2% full scale

**Drift:** Within 1% of full scale per 8 hours of continuous operation

**Response Time (T-90):** 20-30 seconds

**Ambient Temperature Range:** 55° to 120°F (12° to 49°C)

**Linearity:** ± 2% of full scale

**Size and Weight:** WP style - approx. 11½" L x 8" W x 7¼" H @ 8 lbs (29 x 20 x 18 cm @ 3.6 kg)  
K style - approx. 14" L x 10½" W x 6" H @ 12 lbs (36 x 27 x 15 cm @ 5.5 kg)

**Power:** AC/DC operation. 115VAC 60Hz for recharging (other voltages available)

**Output Options:** 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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# NOVA

Dependable Gas Analysis Solutions



## 335 SERIES PORTABLE PROCESS HYDROGEN ANALYZER

### APPLICATIONS

For analysis of hydrogen ( $H_2$ ) in a binary gas mixture in process gases such as  $H_2$  in air,  $H_2$  in nitrogen ( $N_2$ ),  $H_2$  in carbon dioxide ( $CO_2$ ),  $H_2$  in argon (Ar),  $H_2$  in oxygen ( $O_2$ ), etc.

### FEATURES

- Rugged design that is easy to operate
- Fast warm up and response
- Long life thermal conductivity cell that provides accurate and stable readings
- Digital meter readout with backlight
- Modular layout that is easy to maintain
- Rechargeable 'gel cell' battery operated
- Built-in sample pump or flow regulator
- Weatherproof (WP) cabinet with clear Lexan cover

### OPTIONS

- Recorder outputs of 0-1 V or 4-20 mA
- Sample pre-cooler for hot samples
- Condensate removal for wet applications
- Suitcase (K) style cabinet available
- AC only power operation
- $H_2$  alarm with LED
- Detachable/portable data logger

### CALIBRATION

- Ambient air for zero
- Gas cylinder of known  $H_2$  for span



Weatherproof (WP) Enclosure



Suitcase (K) Enclosure

NOVA ANALYTICAL SYSTEMS

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

## DESCRIPTION

The Nova 335 Portable Analyzer has been designed for the detection of hydrogen (H<sub>2</sub>) in a binary (two gas) mixture such as H<sub>2</sub> in N<sub>2</sub>. However, it can be used in some other applications with several background gases present. Consult Nova on these applications.

The thermal conductivity (T/C) cell provides a fast and accurate measurement of H<sub>2</sub>. It has an expected life of over 10 years unless contaminated.

In operation, a built-in sample pump draws in the gas sample through the sample tube, filter, and flow meter and then on to the T/C cell. The detected H<sub>2</sub> is displayed on an LCD digital meter which has a switchable back-light for use in dark areas.

A rechargeable 'gel cell' battery provides enough power for approximately 8 hours of continuous operation and the analyzer can be used while it is being recharged. A red LED tells when to recharge and a green LED verifies that it is receiving recharging power. The recharger is included.

## SPECIFICATIONS

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

Description	
<b>Method of Detection:</b>	Temperature compensated thermal conductivity (T/C) cell
<b>Ranges:</b>	0-100.0% H <sub>2</sub> in a binary gas mixture
<b>Resolution:</b>	0.1% of H <sub>2</sub>
<b>Accuracy and Repeatability:</b>	± 2% of full scale
<b>Drift:</b>	± 1% of full scale max. per day (after calibration)
<b>Response Time (T-90):</b>	10-15 seconds to 90% step change - not including sample transport time
<b>Ambient Temperature Range:</b>	55° to 120°F (12° to 50°C)
<b>Linearity:</b>	± 2% of F.S.
<b>Size and Weight:</b>	WP style - approx. 10" L x 7½" W x 6½" H @ 8 lbs (25.5 x 19 x 16.5 cm @ 3.6 kg) K style approx. 9½" L x 7" W x 6½" H @ 8 lbs (24 x 17 x 18 cm @ 3.6 kg)
<b>Power:</b>	115VAC 60Hz for recharging (220VAC 50Hz available)
<b>Output Options:</b>	4-20 mA or 0-1 VDC
<b>Alarms:</b>	H2 alarm with LED (optional)

## UNIQUE APPLICATIONS

The Nova T/C cell will respond in the presence of many gases and may need to be compensated either directly in the analyzer or in the calibration gas. Consult Nova on these types of applications.

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# NOVA

Dependable Gas Analysis Solutions



## 340 Series PORTABLE ANALYZER FOR OXYGEN & HYDROGEN

### APPLICATIONS

Analysis of oxygen/hydrogen ( $O_2/H_2$ ) in exothermic furnace atmospheres for copper, brass, or steel annealing, neutral heating, sintering, glass metal beds, or oxide coating of steel.

### FEATURES

- Rugged design that is easy to operate and maintain
- Fast warm-up and response
- Long life electrochemical  $O_2$  sensor easily detects air infiltration into furnace gas
- Long-life thermal conductivity cell that provides accurate & stable readings of  $H_2$
- Separate digital meters with backlight
- Rechargeable battery operation
- Built-in sample pump, filter, & flow meter
- Weatherproof (WP) cabinet with clear Lexan cover

### OPTIONS

- Recorder outputs of 0-1 VDC or 4-20 mA
- Sample pre-cooler for hot samples
- Condensate removal for wet applications
- Suitcase (K) style cabinet Available
- $O_2$  &  $H_2$  alarms with LED
- Detachable/portable data logger
- Dual range  $O_2$  (0-25.0% & 0-2.00%) (Model 341WP)
- Special PPM  $O_2$  sensor (100 to 9,999 PPM) (Model 340L)

### CALIBRATION

- On air for  $H_2$  zero and %  $O_2$  span
- On analyzed mixture of %  $H_2$  in  $N_2$  for  $H_2$  span and  $O_2$  zero
- On analyzed mixture of PPM  $O_2$  in  $N_2$  for PPM  $O_2$  span



340WP - Weatherproof  
Enclosure



341K - Suitcase  
Enclosure



Optional Precooler  
for hot or wet  
sample gases

NOVA ANALYTICAL SYSTEMS

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

## DESCRIPTION

The Nova 340 Series Portable Analyzer has been designed for the dual measurement of O<sub>2</sub> and H<sub>2</sub> in furnace atmosphere gases. A built-in sample pump draws in a sample of atmosphere gas where it is detected for oxygen by a long-life oxygen sensor. At the same time, H<sub>2</sub> is detected by a long-life thermal conductivity cell.

The Model 341 is a dual range O<sub>2</sub> version that can be switched between the standard range (0-25.0%) and a lower range (0-2.0%) using the same sensor. For applications requiring a PPM O<sub>2</sub> measurement, a special low range version is available (Model 340L). The Models 340 & 341 have rechargeable battery operation, a flow meter, filter, sample hose, and dual digital readouts. A recharger is included. Recorder outputs of 4-20mA or 0-1VDC are optional.

## MODELS

- 340WP - % O<sub>2</sub> / % H<sub>2</sub> (WP - weather-proof)
- 340L(K or BT - bench top) - % H<sub>2</sub> & PPM O<sub>2</sub> version  
(340L not available in WP enclosure)
- 341(K or WP) - % H<sub>2</sub> & Dual Range O<sub>2</sub>
- 340K - % O<sub>2</sub> / % H<sub>2</sub>; (K - suitcase-style)

## SPECIFICATIONS

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

Description	
<b>Method of Detection:</b>	Long-life electrochemical O <sub>2</sub> sensor, temperature-compensated thermal conductivity (T/C) H <sub>2</sub> cell, cannot be burned out due to loss of flow or changing gases
<b>Ranges Available:</b>	0-25.0% O <sub>2</sub> , 0-40.0% H <sub>2</sub> (Model 340) 0-2.0% and 0-25.0% O <sub>2</sub> , 0-40.0% H <sub>2</sub> (Model 341) 0-100 to 0-9,999 PPM O <sub>2</sub> , 0-40% H <sub>2</sub> (Model 340L)
<b>Resolution:</b>	0.1 % on % ranges; 1 PPM on PPM O <sub>2</sub> range
<b>Accuracy and Repeatability:</b>	± 2% of full scale for O <sub>2</sub> & H <sub>2</sub>
<b>Drift:</b>	± 1% of full scale per day
<b>Response Time (T-90):</b>	Less than 10 seconds to 90% step change
<b>Ambient Temperature Range:</b>	55° to 120°F (12° to 50°C)
<b>Linearity:</b>	± 2% of full scale
<b>Size and Weight:</b>	WP style - approx. 11½" L x 8" W x 7¼" H @ 8 lbs (29 x 20 x 18 cm @ 3.6 kg) K style - approx. 14" L x 10½" W x 6" H @ 8 lbs (36 x 27 x 15 cm @ 3.6 kg)
<b>Power:</b>	115VAC 60Hz for recharging (220VAC 50Hz available)
<b>Output Options:</b>	4-20 mA or 0-1 VDC
<b>Alarms:</b>	O <sub>2</sub> and H <sub>2</sub> alarms with LED (optional)

## UNIQUE APPLICATIONS

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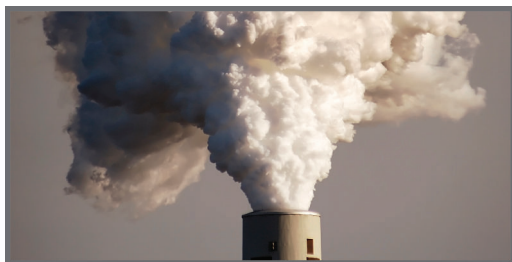


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Dependable Gas Analysis Solutions



## 350 SERIES PORTABLE FLUE GAS ANALYZER FOR OXYGEN & COMBUSTIBLES

### APPLICATIONS

Analysis of oxygen ( $O_2$ ) and combustibles. For checking the combustion efficiency, 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
- Long-life catalytic combustibles sensor
- Long-life electrochemical  $O_2$  sensor
- Digital readout meter with backlight
- Rechargeable battery operation
- Built-in sample pump, filter and flowmeter
- Active condensate removal
- Stainless steel probe with sample hose
- Use on flue gas from any fuel
- Pays for itself in months through fuel savings

### OPTIONS

- Recorder output of 0-1V or 4-20 mA
- Stack temperature readout (Model 350T)
- Sample pre-cooler
- Suitcase (K) style cabinet available
- Detachable/portable data logger

### CALIBRATION

- On air for  $O_2$  span and combustibles zero.
- On analyzed mixture of carbon monoxide ( $CO$ ), methane ( $CH_4$ ), or hydrogen ( $H_2$ ) in nitrogen for combustibles span and  $O_2$  zero.



Weatherproof (WP) Enclosure



Suitcase (K) Enclosure



Optional  
Ice Bath  
Precooler

NOVA ANALYTICAL SYSTEMS

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## DESCRIPTION

The Nova 350 Series Portable Flue Gas Analyzer has been designed for accuracy, reliability, ease of use and ease of service. It uses customer replaceable sensors which respond quickly to the oxygen (O<sub>2</sub>) and combustibles present in the flue gas sample. The sensor life expectancy is between 2 and 3 years.

In operation, a built-in sample pump draws in the flue gas sample through the stainless steel probe, 12 ft. (4 m) sample hose, condensate removal filter, secondary filter, flowmeter, then on to the oxygen and combustibles sensors. The detected O<sub>2</sub> and combustibles are displayed on LCD digital meters which have a switchable backlight for use in dark areas. A built-in air makeup system ensures that the combustibles detector will always have sufficient O<sub>2</sub> for proper operation regardless of sample O<sub>2</sub> content.

A rechargeable battery provides enough power for about 6 hours of continuous operation and the analyzer can be used while it is being recharged. A red LED tells when to recharge and a green LED verifies that it is receiving recharging power. The recharger is included.

## 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> sensor. Catalytic oxidation detector for combustibles. Expected life is 2-3 years for each.
<b>Ranges Available:</b>	0-25.0% O <sub>2</sub> 0-5.0% or 0-10.0% combustibles 0-1800°F or 0-1000°C stack temperature (Model 350T)
<b>Resolution:</b>	0.1 %
<b>Accuracy and Repeatability:</b>	± 1% full scale, based on 20.9% O <sub>2</sub> ; ± 2% of full scale combustibles
<b>Drift:</b>	<2% of full scale per 8 hours of continuous operation
<b>Response Time:</b>	5-8 seconds for O <sub>2</sub> ; 20-30 seconds for combustibles
<b>Ambient Temperature Range:</b>	32° to 105°F (0° - 40.5°C)
<b>Linearity:</b>	± 1% full scale, based on 20.9% O <sub>2</sub> ; ± 2% of full scale combustibles
<b>Size and Weight:</b>	WP style - approx. 11½" L x 8" W x 7¼" H @ 8 lbs (29 x 20 x 18 cm @ 3.6 kg) K style - approx. 14" L x 10½" W x 6" H @ 12 lbs (36 x 27 x 15 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

The 350 Series should not be used for detecting these gases in ambient atmospheres for personnel safety purposes. 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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Dependable Gas Analysis Solutions



## 352 SERIES

### PORTABLE FLUE GAS ANALYZER FOR OXYGEN, CARBON MONOXIDE & COMBUSTIBLES

#### APPLICATIONS

Analysis of oxygen ( $O_2$ ), carbon monoxide (CO), and combustibles. For checking the combustion efficiency, 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
- Long-life catalytic combustibles sensor
- Long-life electrochemical  $O_2$  & CO sensors
- Digital readout meters with backlight
- Rechargeable battery operation
- Built-in sample pump, filter and flow meter
- Includes stainless steel probe with sample hose
- Use on flue gas from any fuel
- Pays for itself in months through fuel savings
- Weatherproof cabinet is standard

#### OPTIONS

- Recorder output of 0-1V or 4-20 mA
- Stack temperature readout (Model 352T)
- Sample pre-cooler
- Suitcase (K) style cabinet available
- Detachable/portable data logger

#### CALIBRATION

- On air for  $O_2$  span and CO & combustibles zero.
- On analyzed mixture of carbon monoxide (CO) and methane ( $CH_4$ ) in nitrogen for combustibles and CO span and  $O_2$  zero.



Weatherproof (WP) Enclosure



Suitcase (K) Enclosure



Optional  
Ice Bath  
Precooler

NOVA ANALYTICAL SYSTEMS

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

## DESCRIPTION

The Nova 352 Series Portable Flue Gas Analyzer has been designed for accuracy, reliability, ease of use and ease of service. It uses customer replaceable sensors which respond quickly to the oxygen (O<sub>2</sub>), carbon monoxide (CO), and combustibles present in the flue gas sample. The sensor life expectancy is between 3 and 4 years.

In operation, a built-in sample pump draws in the flue gas sample through the stainless steel probe, 12 ft. (4 m) sample hose, condensate removal filter, secondary filter, PTFE liquid blocker, flowmeter, then on to the O<sub>2</sub>, CO, and combustibles sensors. The detected gases are displayed on LCD digital meters which have a switchable backlight for use in dark areas. A built-in air makeup system ensures that the combustibles detector will always have sufficient O<sub>2</sub> for proper operation regardless of sample O<sub>2</sub> content.

A rechargeable battery provides enough power for about 6 hours of continuous operation and the analyzer can be used while it is being recharged. A red LED tells when to recharge and a green LED verifies that it is receiving recharging power. The recharger is included.

The Nova 352T version indicates stack temperature for doing fuel efficiency calculations. The temperature sensor is built into the sampling probe. Efficiency charts for each fuel are provided.

## SPECIFICATIONS

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

### Description

**Method of Detection:** Customer replaceable electrochemical O<sub>2</sub> & CO sensors  
Catalytic oxidation detector for combustibles; expected life is 3-4 years for each

**Ranges Available:** 0-25.0% O<sub>2</sub>  
0-2000 PPM and 0-4.00% CO (switch selectable)  
0-5.0% or 0-10.0% combustibles  
0-1800°F or 0-1000°C stack temperature (Model 352T)

**Resolution:** 0.1%

**Accuracy and Repeatability:** ± 1% full scale, based on 20.9% O<sub>2</sub>; ± 2% of full scale combustibles

**Drift:** <2% of full scale per 8 hours of continuous operation

**Response Time:** 5-8 seconds for O<sub>2</sub>; 20-30 seconds for combustibles

**Ambient Temperature Range:** 32° to 105°F (0° - 40.5°C)

**Linearity:** ± 1% full scale O<sub>2</sub> & CO; ± 2% of full scale combustibles

**Size and Weight:** WP style - approx. 11½" L x 8" W x 7¼" H @ 8 lbs (29 x 20 x 18 cm @ 3.6 kg)  
K style - approx. 14" L x 10½" W x 6" H @ 12 lbs (36 x 27 x 15 cm @ 5.5 kg)

**Power:** AC/DC operation, 115VAC 60Hz for recharging (Other voltages available)

**Output Options:** 4-20 mA or 0-1 VDC

## UNIQUE APPLICATIONS

The 352 Series should not be used for detecting these gases in ambient atmospheres for personnel safety purposes. 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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www.nova-gas.com





Dependable Gas Analysis Solutions



## 360 SERIES

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

#### APPLICATIONS

Analysis of oxygen ( $O_2$ ) 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  $O_2$  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  $O_2$  span and CO zero
- Analyzed mixture of CO in nitrogen for CO span and  $O_2$  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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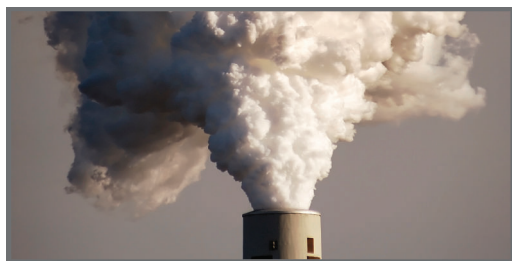
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[www.nova-gas.com](http://www.nova-gas.com)



Dependable Gas Analysis Solutions



## 362 SERIES

### PORTABLE FLUE GAS ANALYZER FOR OXYGEN, CARBON MONOXIDE, AND NO<sub>x</sub>

#### 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



362WP Weather Proof Enclosure



362K Suitcase Enclosure



Optional  
Sample  
Precooler

NOVA ANALYTICAL SYSTEMS

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

## 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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# NOVA

Dependable Gas Analysis Solutions



## 375 SERIES PORTABLE FLUE GAS ANALYZER FOR OXYGEN, CARBON MONOXIDE, & CARBON DIOXIDE

### APPLICATIONS

Analysis of oxygen ( $O_2$ ), carbon monoxide (CO), and carbon dioxide ( $CO_2$ ). For checking the combustion efficiency, and burner & control performance of furnaces, heaters, and boilers. May be used in commercial, industrial, and residential applications.

### FEATURES

- $CO_2$  actually measured by infrared detector, not calculated
- Rugged design that is easy to operate
- Fast warm up and response
- Dual CO range: 0-2000 PPM & 0-4.00%
- Rapid reading recovery after CO 'overdose'
- Digital readout meters with backlight
- Modular design that is easy to maintain
- Rechargeable battery operation
- Built-in sample pump, filter and flow meter
- Continuous condensate removal
- Weatherproof (WP) cabinet with clear Lexan cover
- Stainless steel probe with sample hose
- Use on any fuel
- Pays for itself in months through fuel savings

### OPTIONS

- Outputs of 0-1V or 4-20mA
- Stack temperature readout (375T)
- Suitcase (K) style cabinet available
- Detachable/portable data logger

### CALIBRATION

- Air for  $O_2$  span and CO/ $CO_2$  zero
- Analyzed gas mixture of  $CO_2$  and CO in nitrogen for span



Weatherproof (WP) Enclosure



Suitcase (K) Enclosure



Optional  
Ice-Bath  
Precooler

NOVA ANALYTICAL SYSTEMS

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

## DESCRIPTION

The Nova 375 Series Portable Flue Gas Analyzers have been designed for accuracy, reliability, ease of use and ease of service, providing a detailed analysis of flue gas composition. The sensors respond quickly to oxygen, CO<sub>2</sub>, and CO present in the flue gas sample. The O<sub>2</sub> and CO sensor life expectancy is between 3 and 4 years. The CO<sub>2</sub> detector life is infinite under normal conditions of use, unless contaminated. The O<sub>2</sub> and CO sensors are customer-replaceable. The infra red CO<sub>2</sub> sensor should not need to be replaced.

In operation, a built-in sample pump draws in the flue gas sample through the S.S. probe, 12 ft. (4 m) sample hose, condensate removal filter, secondary filter and flow meter and then on to the three sensors. The detected O<sub>2</sub>, CO<sub>2</sub>, and CO are displayed on 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 375T version also indicates 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 tells when to recharge and a green LED verifies that it is receiving recharging power. The recharger is included.

## 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 oxygen and CO sensors Solid state infra red detector for CO <sub>2</sub>	
<b>Ranges:</b>	0-25.0% Oxygen 0-20.0% CO <sub>2</sub> <i>(other CO<sub>2</sub> ranges available)</i>	0-1800°F (0-1000°C) stack temperature (Model 375T) 0-2000 PPM and 0-4.00% CO - switch selectable <i>(lower PPM ranges available without switch-selectable percent display)</i>
<b>Accuracy and Repeatability:</b>	2% full scale for O <sub>2</sub> and CO <sub>2</sub> ; ± 10 PPM CO	
<b>Drift:</b>	< 2% full scale per 8 hours of continuous operation	
<b>Response Time (T-90):</b>	10-15 seconds for O <sub>2</sub> ; 20-30 seconds for CO and CO <sub>2</sub>	
<b>Ambient Temperature Range:</b>	32° to 105°F (0-40°C)	
<b>Linearity:</b>	± 1.0% of full scale for each gas measured	
<b>Size and Weight:</b>	WP style approx. 16" L x 4 1/2" H x 8" D @ 13 lbs (40.6 x 20.3 x 10.8 cm @ 5.6 kg) K style - approx. 18" L x 7" H x 12" D @ 15 lbs (45.7 x 30.5 x 17.8 cm @ 6.8 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

The 375 Series should not be used for detecting these gases in ambient atmospheres for personnel safety purposes. 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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# NOVA

Dependable Gas Analysis Solutions



## 376 SERIES PORTABLE FLUE GAS ANALYZER FOR OXYGEN, CARBON MONOXIDE, CARBON DIOXIDE, & OXIDES OF NITROGEN (NO<sub>x</sub>)

### APPLICATIONS

For the analysis of oxygen (O<sub>2</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and oxides of nitrogen (NO<sub>x</sub> as NO) in flue gas from furnaces, heaters, and boilers. May be used on commercial, industrial, and residential combustion equipment.

### FEATURES

- CO<sub>2</sub> actually measured by infrared detector, not calculated
- Rugged design that is easy to operate and maintain
- Fast warm up and response
- Dual CO range: 0-2000 PPM & 0-4.00%
- Rapid reading recovery after CO or NO 'overdose'
- Digital readout meters with backlight
- Rechargeable battery operation
- Built-in sample pump, filter and flow meter
- Active condensate removal
- Weatherproof (WP) cabinet with clear Lexan cover
- Stainless steel probe with sample hose
- Use on flue gas from any fuel
- Pays for itself in months through fuel savings

### OPTIONS

- Outputs of 0-1V or 4-20 mA
- Stack temperature readout (376T)
- Suitcase (K) style cabinet available
- Gas alarms with LED warning
- Detachable/portable data logger

### CALIBRATION

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



Weatherproof (WP) Enclosure



Suitcase (K) Enclosure



Optional Precooler for  
hot or wet sample gases

NOVA ANALYTICAL SYSTEMS

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

## DESCRIPTION

The Nova 376 Series Portable Analyzers provide a detailed analysis of flue gas composition. They have been designed for accuracy, reliability, ease of use and service. The sensors respond quickly to the gases of interest present in the flue gas sample. Under normal conditions of use, the O<sub>2</sub>, CO, and NO<sub>x</sub> sensors each have a life expectancy of between 3 and 4 years, and are customer-replaceable. The CO<sub>2</sub> sensor should not need to be replaced.

In operation, a built-in sample pump draws in the flue gas sample through the S.S. probe, 12 ft. (4 m) sample hose, condensate removal filter, secondary filter and flowmeter, and then on to the four sensors. The detected O<sub>2</sub>, CO<sub>2</sub>, CO, and NO<sub>x</sub> are displayed on digital meters which have a switchable backlight for use in dark areas. The sensors do not require special SO<sub>2</sub> scrubbing chemicals as do some types of analyzers.

The Nova 376T version also indicates stack temperature for doing fuel efficiency calculations. The temperature sensor is built into the sampling probe. A rechargeable 'gel cell' battery provides enough power for about 8 hours of continuous operation and the analyzer can be used while it is being recharged. A red LED tells when to recharge and a green LED verifies that it is receiving recharging power.

## 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 sensors. Solid state infra red detector for CO <sub>2</sub> .	
<b>Ranges:</b> <i>(Other ranges available)</i>	0-25.0% O <sub>2</sub> 0-20.0% CO <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) ranges available 0-1800°F (0-1000°C) stack temperature (Model 376T)
<b>Accuracy and Repeatability:</b>	Within ± 0.1% O <sub>2</sub> and CO <sub>2</sub> ; ± 2 PPM CO and NO	
<b>Drift:</b>	2% full scale per 8 hours of continuous operation	
<b>Response Time (T-90):</b>	10-15 seconds for O <sub>2</sub> ; 20-30 seconds for CO, NO, and CO <sub>2</sub>	
<b>Ambient Temperature Range:</b>	32° to 105°F (0-40°C)	
<b>Linearity:</b>	± 1.0% of full scale for each gas measured	
<b>Size and Weight:</b>	WP style approx. 16" L x 8" W x 7¼" H @ 13 lbs (41 x 20 x 18 cm @ 5.6 kg) K style - approx. 18" L x 12" W x 7" H @ 15 lbs (46 x 30.5 x 18 cm @ 6.8 kg)	
<b>Power:</b>	115VAC 60Hz for recharging (other voltages available)	
<b>Output Options:</b>	4-20 mA or 0-1 VDC	

## UNIQUE APPLICATIONS

The 376 Series should not be used for detecting these gases in ambient atmospheres for personnel safety monitoring. 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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