

NOVA

MODEL 360WP

PORTABLE FLUE GAS ANALYZER FOR OXYGEN AND CO

APPLICATIONS

For checking combustion efficiency, burner & control performance and detection of air infiltration on commercial, industrial & residential furnaces, heaters and boilers.



**Optional
Pre-cooler**



OPTIONS

- Sample pre-cooler
- 4-20ma outputs for recording or data logging
- Rugged carrying case
- Permanently mounted versions available
- Stack temperature readout (Model 360TWP)
- Special sampling probes

FEATURES

- Fast response
- Simple to operate - compact size
- Easy to maintain
- Use on any fuel
- Digital readouts with back lighting for use in dark areas.
- Rechargeable 'gel cell' battery operation
- Built in sample pump
- Long life detector cells for O₂ and CO
- Dual CO ranges: 0-2000 PPM & 0-4%
- Rapid CO reading recovery on CO 'overdose'
- Pays for itself in months through fuel savings
- Rugged watertight - dusttight enclosure with carrying handle

DESCRIPTION

The Nova Model 360WP Portable Flue Gas Analyzer has been designed for accuracy, reliability, ease of use and ease of service. It has customer replaceable sensors which respond quickly to the oxygen and CO present in the flue gas sample. The sensors life expectancy is between 3 and 4 years.

In operation, a built in sample pump draws in the flue gas sample through the S.S. probe, 12 ft. sample hose, filter/condensate trap, secondary filter and flowmeter then on to the oxygen

and CO sensors. The detected O₂ and CO are displayed on LCD digital meters which have a switchable backlight for use in dark areas. The sensors do not require any special SO₂ scrubbing chemicals as do some types of analyzers. A dual range switch on CO allows either the 2000 PPM range or the 0-4% range to be used.

A rechargeable 'gel cell' battery provides enough power for about 22 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 360TWP 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.

The rugged dust-tight and water resistant case is suitable for use in harsh environments.

CALIBRATION

On air for O₂ span and CO zero. On analyzed gas mixtures of CO in N₂ for CO span and O₂ zero.

SPECIFICATIONS

DESCRIPTION	
Method of Detection:	Customer replaceable electrochemical oxygen and CO sensors Expected life is 2-3 years for each
Ranges:	0-25.0% Oxygen 0-2000 PPM and 0-4.00% CO (Switch selectable) 0-1800°F net stack temperature (Model 360TWP) 0-1000°C also available
Display:	LCD digital with switchable backlighting
Resolution:	± 0.1% O ₂ and ± 1 PPM CO
Accuracy and Repeatability:	1% of full scale, based on 20.9% O ₂ and 0-2000 PPM CO
Drift:	1% full scale per 8 hours of continuous operation
Response Time:	5-8 seconds for O ₂ , 20-30 seconds for CO
Operating Temperature Range:	32° to 105°F (0-40°C)
Size:	13" L x 8" W x 7-1/2" H (32 x 20 x 19 cm)
Weight:	8 lbs. (3.6 kg)
Power:	AC/DC operation. 115VAC 60Hz for recharging (Other voltages available)

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

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