NOVA

Dependable Gas Analysis Solutions

320 SERIES

PORTABLE FLUE GAS ANALYZER FOR OXYGEN

APPLICATIONS

Analysis of oxygen (O_2) in flue gases from any type of fuel. For checking combustion efficiency, air infiltration and burner & control performance of furnaces, heaters and boilers. May be used in commercial, industrial and residential applications.

FEATURES

- Rugged design that is easy to operate and maintain
- Fast warm-up and response
- Long life 'fuel cell' oxygen sensor (3-4 year life)
- Digital readout meter with backlight
- Rechargeable battery operation
- Built-in sample pump, filter and flow meter
- Continuous condensate removal
- For use on any fuel
- Weatherproof (WP) cabinet with clear Lexan cover
- Stainless steel probe with sample hose
- Pays for itself in months through fuel savings

Weatherproof (WP) Enclosure

Suitcase (K) Enclosure

OPTIONS

- Outputs of 0-1V or 4-20 mA
- Stack temperature readout (320T)
- Sample pre-cooler
- Suitcase (K) style cabinet available
- Detachable/portable data logger

CALIBRATION

- On air for span
- On nitrogen for zero

Optional Ice Bath Precooler

NOVA ANALYTICAL SYSTEMS

www.nova-gas.com

DESCRIPTION

The Nova 320 Series of Portable Flue Gas Oxygen Analyzers utilize a reliable, stable oxygen sensor which responds quickly to the oxygen present in a flue gas sample. Its life expectancy is between 3 and 4 years. The sensor is very easy for the customer to replace and at a reasonable cost.

A rechargeable 'gel cell' battery provides enough power for the pump and electronics for about 20 hours of continuous operation. The analyzer can still be operated while it is being charged. A red LED indicates when to recharge the analyzer and a green LED indicates that the analyzer is receiving recharging power. The battery recharger is included with the analyzer.

The detected O_2 is displayed on an LCD digital meter that has a switchable backlight for use in dark areas. The analyzer can be operated for long periods unattended due to its continuous condensate removal feature. The analyzer is supplied with a 12ft. sample hose and a stainless steel probe.

The Model 320 can optionally indicate stack temperature (Model 320-T; 0-1800F or 0-1000C) 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:	Long life electrochemical oxygen sensor
Ranges Available:	0-5.0%, 0-10.0%, 0-25.0%, 0-50.0%
Resolution:	0.1% O_2
Accuracy and Repeatability:	±1% of full scale (±2% of full scale above 30% O_2)
Drift:	< 2% of full scale for 8 hours of operation
Response Time (T-90):	8-10 seconds for 90% of step change
Ambient Temperature Range:	32° to 105°F (0-40°C)
Linearity:	±1.0% of full scale
Size and Weight:	WP style - approx. 10" L x 7½" H x 6½" D @ 8 lbs (25.5 x 19 x 16.5 cm @ 3.6 kg) K style - approx. 14" L x 6" H x 10½" D @ 8 lbs (35.5 x 15.2 x 26.6 cm @ 3.6 kg)
Power:	AC/DC operation. 115VAC 60Hz for recharging (other voltages available)
Output:	0-1V or 4-20mA (optional)

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.

NOVA ANALYTICAL SYSTEMS
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