NOVA

Dependable Gas Analysis Solutions

302 Series

PORTABLE FLUE GAS CARBON DIOXIDE ANALYZER

APPLICATIONS

Analysis of carbon dioxide (CO_2). For checking combustion efficiency, and burner & control performance of furnaces, heaters and boilers. May be used in commercial, industrial and residential settings.

350K - standard suitcase enclosure (K)

FEATURES

- Solid state infrared CO2 detector
- Rugged design, easy to operate, fast response
- Digital readout meter with backlight
- Rechargeable battery operation
- Built-in sample pump, filter and flowmeter
- Condensate removal bowl & pump
- Stainless steel probe with sample hose

OPTIONS

- Durable suitcase-style cabinet that is weather-proof when closed (K); display inside of cabinet
- Suitcase style cabinet with display moved to exterior (KX)
- Stack temperature readout (Model 350T)
- 4-20mA recorder output
- Sample pre-cooler
- Data logging

350KX - suitcase enclosure with external display (KX)

CALIBRATION

- Air for zero
- Analyzed CO_2 cal gas for span.

Optional Ice Bath Precooler

NOVA ANALYTICAL SYSTEMS

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DESCRIPTION

The Nova 302 Series Portable Flue Gas Analyzers have been designed for accuracy, reliability, and ease of use and service. The 302 uses a solid state infra red detector which responds quickly to CO_2 present in the flue gas sample.

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 CO_2 detector. The detected CO_2 is displayed on a local digital meter.

The 302 can optionally indicate net stack temperature (302-T) for doing fuel efficiency calculations. The temperature sensor is built into the sampling probe. Efficiency charts for each fuel are provided.

A rechargeable battery provides enough power for about 6 hours of continuous operation and the analyzer can be used while it is being recharged. The recharger is included.

SPECIFICATIONS

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

Description	
Method of Detection:	Microprocessor based infrared detector for CO_2 Optional stack temperature (Model 302T) using TypeK thermocouple in probe
Ranges Available:	0 - 20.0% CO_2 (other ranges available) 0-1800°F or 0-1000°C stack temperature
Resolution:	0.1% CO_2
Accuracy and Repeatability:	Within ±2% full scale
Drift:	Less than 1% full scale per 8 hours of continuous operation
Response Time (T-90):	30 - 40 seconds
Ambient Temperature Range:	32° to 105°F (0° to 40°C)
Linearity:	Better than 1.0% of full scale
Size and Weight:	Approx. 35.5L x 15.2H x 26.6D cm @ 5.5 kg (14" x 6" x 10½" @ 8 lbs)
Power:	AC/DC operation. 115VAC 60Hz for recharging (other voltages available)
Output Options:	4-20mA
Alarms:	High or low CO_2 alarm with display indication (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.

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