

NOVA

Dependable Gas Analysis Solutions

7200 SERIES CONTINUOUS FLUE GAS ANALYZERS



APPLICATIONS

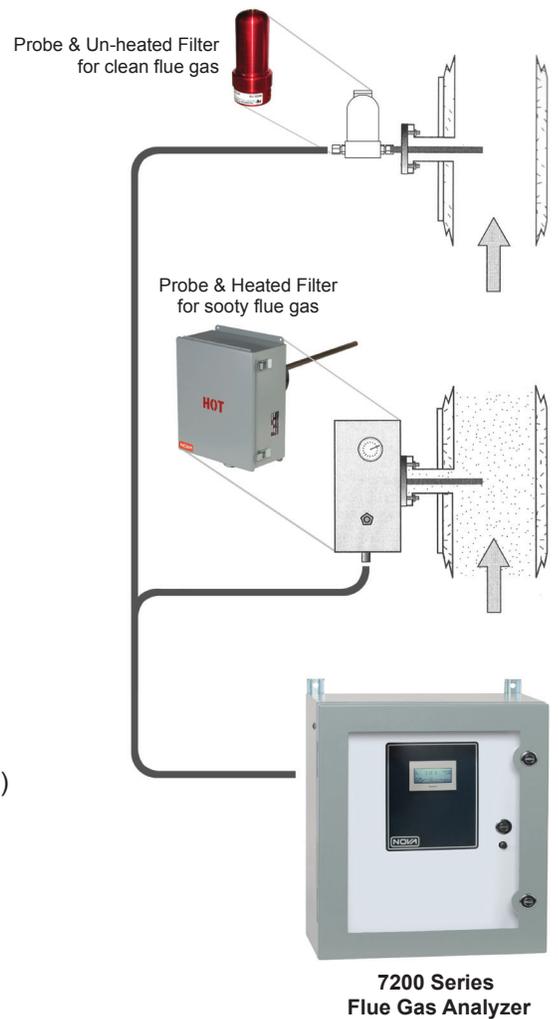
Continuous analysis of flue gas for any combination and range of O₂, CO, CO₂, SO₂, NO_x (as NO or NO + NO₂) or combustibles from combustion processes.

FEATURES

- Best value continuous flue gas analyzer
- Infrared detectors for % and > 1000 PPM CO, CO₂, or SO₂
- Electrochemical sensors for O₂, NO, NO₂, and SO₂ & 10-1000 PPM CO
- Catalytic sensor for % combustibles
- Fast response time and digital readout of gas readings
- Easy to maintain modular layout
- Sample preparation includes filtration & continuous moisture removal
- 4-20mA outputs for each gas measured
- Sensors are temperature-controlled for maximum stability

OPTIONS

- Hi/Low gas, Low Flow alarms available
- Isolated analog 4-20mA outputs available
- Cabinet purge system available for use in hazardous or high dust areas
- Auto-calibration with touch screen LCD display
- Cabinet heating / cooling for operation in -20°C up to 55°C (-4°F to <131°F)
- Optional sample conditioning features include:
 - 1) High-Temp Probe & Un-Heated Stack Pre-filter for clean flue gas
 - 2) High-Temp Probe & Heated Stack Filter for filtration of sooty flue gas (Model 7240), automatic blowback available
 - 3) Calibration gas injected at heated stack filter
 - 4) Dual or Multi-point option allows multiple samples to be cycled and analyzed (see Models 401/402)



NOVA ANALYTICAL SYSTEMS

www.nova-gas.com

DESCRIPTION

The Nova Model 7200 Series Flue Gas Analyzers are specifically designed for use on the flue gases from combustion processes burning gaseous fuels such as natural gas. These analyzers can measure sample gases from oil- or coal-fired processes with the addition of a Model 7240 heated sample filter. Optional dual or multi-point sequencers allow analysis of multiple points using one analyzer.

Sample gas is drawn into the analyzer from the sampling probe or heated filter, then pumped through a condensate removal system. Next, the dried sample gas is filtered again and flows through a PTFE liquid block, flow meter, then on to the gas detectors. The readings are locally displayed and also sent to 4-20mA recorder outputs.

SPECIFICATIONS

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

Description

Method of Detection:	% O ₂ , 10-1000 PPM NO, NO ₂ , CO, & SO ₂ by long-life electrochemical sensor CO ₂ , >1000 PPM & % CO & SO ₂ by infrared detector Combustibles by catalytic detector	
Ranges Available: <i>(Ranges to be specified by customer. Other ranges may also be available.)</i>	0-5 to 0-25% O ₂ 0-20% CO ₂ 0-100 PPM to 0-5% SO ₂ 0-100 PPM to 0-100 % CO	0-100 to 0-2,000 PPM NO 0-100 to 0-800 PPM NO ₂ 0-2, 0-5, 0-10% Combustibles
Resolution:	0.1 % on % ranges, 1 PPM on PPM ranges	
Accuracy and Repeatability:	±1-2% of full scale - depending on gas measured and ranges	
Drift:	Less than 2% of full scale per month	
Response Time (T-90):	20-30 seconds to 90% of step change	
Ambient Temperature Range:	32-122°F (0-50°C) @ 5-95% RH non-condensing. Lower temperatures (-5°F, -20°C) with Cold Weather Package.	
Linearity:	±1% of full scale	
Size and Weight:	762 H x 610 W x 305 D mm (30" H x 24" W x 12" D) Dimensions may vary depending on options & configuration purchased	
Power:	115VAC 60Hz (220VAC 50Hz available)	
Output Options:	4-20mA into 500 ohms non-isolated standard Isolated 4-20mA, RS-232 outputs optional	
Alarms:	High or low alarm contacts available for all gases, low flow and high vacuum	

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
(A UNIT OF TENOVA GOODFELLOW INC.)

IN USA:
1925 Pine Avenue • Niagara Falls, NY • 14301
Tel: 1-800-295-3771 • 716.285.0418 • Fax: 716.282.2937
IN CANADA:
270 Sherman Avenue North • Hamilton, ON • L8L 6N5
Tel: 905.545.2003 • Fax: 905.545.4248
email: sales@nova-gas.com
websales@nova-gas.com



www.nova-gas.com