

# NOVA

Dependable Gas Analysis Solutions

## 400 SERIES CONTINUOUS PROCESS GAS ANALYZERS



### APPLICATIONS

For continuous analysis of process gas streams. Many choices of gas analysis available such as oxygen (O<sub>2</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), hydrogen (H<sub>2</sub>), nitrogen oxide (NO), sulfur dioxide (SO<sub>2</sub>), ammonia (NH<sub>3</sub>), and others.

### FEATURES

- Continuous analysis of clean dry process gases
- Bright digital readouts
- Long-life sensors / detectors
- Microprocessor control with push button calibration
- Easy-to-maintain modular layouts
- Built-in sample motivation included
- 4-20mA recorder outputs

### OPTIONS

- Hi/Low gas, low flow, and diagnostic alarms available
- Isolated 4-20mA, RS232, and RS485 outputs available
- Sample conditioning systems available for removal of moisture, acidic gas, and dust
- Explosion-proof cabinets and cabinet purge systems available for use in hazardous areas
- Automatic calibration with touch screen LCD display
- Outdoor weather packages for operation in outdoor environments
- High temperature filters and probes



NOVA ANALYTICAL SYSTEMS

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



NEMA 4 Enclosure



NEMA 4X Enclosure



Explosion-Proof Enclosure



19" Rack Mount Enclosure

## DESCRIPTION

The Nova 400 Series are designed for accurate measurement of clean dry gases in a variety of process atmospheres. These analyzers utilize durable, high quality sensors / detectors for fast gas analysis. Gas readings are clearly displayed on the front of the analyzers, and transmitted via 4-20mA recorder output. Sample motivation or regulation is included as standard in most cases.

## MODELS

- 410 - Percent Oxygen
- 415 - PPM Oxygen
- 420 - Percent & PPM Carbon Dioxide
- 425 - Percent Binary Gas Mixtures by TCD
- 430 - Percent & PPM Hydrogen
- 436 - Tri-Gas Analyzer for H<sub>2</sub> / CO<sub>2</sub> / Air
- 450 - PPM Hydrogen Sulfide
- 460 - Percent & PPM Sulfur Dioxide
- 470 - Percent Methane
- 480 - Percent & PPM Carbon Monoxide
- 490 - Hydrogen Chloride
- 495 - Percent & PPM Ammonia

## SPECIFICATIONS

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

Description			
<b>Ambient Temperature Range:</b>	4 to 40°C (40 to 104°F) standard. -20 to 55°C (-4°F to 131°F) with Outdoor Package		
<b>Size and Weight:</b>	<b>NEMA 4</b> 20" H x 16" W x 10" D @ 23 lbs (51 x 40 x 25 cm @ 10.5 kg)	<b>NEMA 4X</b> 24" H x 24" W x 10" D @ 40 lbs (61 x 61 x 25 cm @ 18.1 kg)	<b>EXPLOSION PROOF</b> 25" H x 10" W x 9" D @ 30lbs (62 x 25 x 23 cm @ 13.6 kg)
	* Dimensions will vary depending on enclosure style and options required.		
<b>Power:</b>	115VAC 60Hz (220VAC 50Hz available)		
<b>Output Options:</b>	4-20ma into 500 ohms non-isolated standard Isolated 4-20mA, RS232, or RS485 optional		
<b>Alarms:</b>	High and/or low alarm contacts available, relay contacts SPDT 5A @ 220VAC rating. Low flow alarm 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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