

420 FLEXI-NOVA SERIES CONTINUOUS LIGHT-DUTY CARBON DIOXIDE ANALYZERS



APPLICATIONS

Light-duty analyzers for applications or environments that are less intensive. For continuous analysis of carbon dioxide (CO₂) in process gas streams using an infrared detector. Both percent and PPM analysis available.

FEATURES

- Detector is temperature-controlled or compensated for improved analytical stability
- High ranges available (up to 100%)
- Low ranges available (5,000 ppm)
- Touch-screen display for gas readings
- Built-in sample pump or pressure regulator
- Non-isolated 4-20mA analog recorder output

OPTIONS

- Hi/Low gas and low flow alarms available
- Serial output & data-logger package available
- Light-duty pre-filter & condensate removal
- Up to 6 other gases measured (depending on application)
- Cabinet cooling available

CALIBRATION

- On ambient air or bottled CO₂ gas for Span
- On bottled N₂ for Zero



Standard NEMA4
wall-mount cabinet



Optional rack-mount cabinet

DESCRIPTION

The Nova FLEXI-NOVA Series Platform has been designed for continuous gas measurements in applications and environments that are less intensive. Lab work, research, clean processes, pre-treated / pre-cleaned produced gases, and others, may benefit from the FLEXI-NOVA series.

Depending on application, some light-duty sample conditioning features may be available. For clean process measurements, percent and ppm-level CO₂ gas.

All sensors / detectors are temperature-controlled or temperature-compensated for maximum analytical stability. Easy calibration using touch-screen controls. Serial Output Package allows connection & data-logging to personal computers via a choice of USB / RS-232 / RS-485.

SPECIFICATIONS

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

Description	
Method of Detection:	Infrared detector for CO ₂
Ranges Available:	FLEX-420-0 - 5,000ppm, or 0 - 1.00, 2.00, 5.00, 10, 30, 100 %
Resolution:	1 or 10ppm on most ppm ranges; 0.1% on most % ranges
Accuracy and Repeatability:	±1-3% of full scale, depending on measurement range and application
Drift:	Usually 2% of full scale per month or less, depending on range and application
Response Time (T-90):	Usually 20-30 seconds to 90% step change, depending on range and application
Ambient Temperature Range:	40 to 104°F (4 to 40°C). Optional: up to 130°F (55°C) with cabinet cooler
Linearity:	Usually ±1.5% of full scale, depending on gas measured
Approximate Size: <small>(Availability of some enclosure types may be dependant on application)</small>	NEMA 4: 51H x 41W x 26D cm (20"H x 16"W x 10"D) RACK MOUNT: 22H x 48W x 47D cm (8.7"H x 19"W x 16"D)
Power:	115VAC 60Hz (220VAC 50Hz available)
Output Options:	4-20mA into 500 ohms isolated; choice of RS232 / RS485 / USB serial connection
Alarms:	High and/or low alarm contacts available, relay contacts SPDT 5A @ 220VAC rating. Low flow alarm optional

UNIQUE APPLICATIONS

The 420 Series analyzers are designed for detection of CO₂ in *non-corrosive* gas streams. 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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