

480 FLEXI-NOVA SERIES CONTINUOUS LIGHT-DUTY CARBON MONOXIDE ANALYZERS



APPLICATIONS

Light-duty analyzers for applications or environments that are less intensive. For continuous analysis of up to 0-10,000 PPM carbon monoxide (CO) in process gas streams using an electrochemical sensor.

FEATURES

- Detector is temperature-controlled or compensated for improved analytical stability and fast response
- PPM range CO measurement by electrochemical sensor
- 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 ppmCO 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 of ppm-level CO gas using an electro-chemical sensor.

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:	Customer replaceable electrochemical 'fuel cell' CO sensor. Expected life 1 to 3 years depending on measurement concentrations.
Ranges Available:	choice of 0-20, 200, 2000, 10000 PPM CO
Resolution:	1 PPM CO up to 2,000 PPM; 10 PPM for greater than 2,000 PPM
Accuracy and Repeatability:	±1% of full scale based on 0-2,000 PPM range
Drift:	Less than 1% of full scale per month or 10 PPM, whichever is greater
Response Time (T-90):	6-8 seconds to 90% step change
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 range and application
Size and Weight:	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 electrochemical CO sensor is unsuitable with certain background gases such as hydrogen. Also, this cell requires that a small amount of O₂ be present in the sample, or that it be metered into the sample. Consult Nova for each application.



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