

NOVA

Dependable Gas Analysis Solutions

523 SERIES CARBON DIOXIDE ALARM MONITOR



APPLICATIONS

For continuous carbon dioxide (CO₂) monitoring of controlled atmosphere (C/A) food storage rooms, breweries, wineries, food packaging plants, or any area where CO₂ is handled.

FEATURES

- Solid state infrared CO₂ detector - no moving parts
- Fast warm-up, approximately 1 minute
- Built-in sample pump included in analyzer
- Unaffected by moisture and humidity
- Easy to use and calibrate
- Dust-tight NEMA 12 enclosure
- 4-20 mA or 0-1 VDC recorder output

OPTIONS

- 1 or 2 levels of CO₂ alarm with relay contact and 'Sonalert' audible alarm with 'Acknowledge' button
- Low flow alarm
- NEMA 4 or 4X weather-proof enclosure
- Bright red strobe light for visible alarming

CALIBRATION

- On ambient air for zero (CO₂ scrubber included)
- Analyzed calibration gas of CO₂ in N₂ for span



523 - Nema 12 Enclosure
*(shown with optional
strobe light)*

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DESCRIPTION

The Nova 523 Series Carbon Dioxide alarm monitors are designed for the continuous detection of CO₂ in ambient air or in air drawn from a confined space or C/A room. A built-in sample pump draws in a sample through a filter and flowmeter and then on to the CO₂ detector. This model uses a solid state infrared CO₂ detector which continuously detects and displays the CO₂ on a front panel digital meter. A 0-1V or 4-20mA linear output signal is available for input to a recorder or similar device.

SPECIFICATIONS

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

Description	
Method of Detection:	Single cell NDIR
Ranges Available:	choice of 5,000 / 10,000 PPM CO ₂ choice of 0-1.0 / 5.0 / 10.0 % CO ₂ (other ranges may be available, contact Nova)
Resolution:	10 PPM for PPM versions; 0.1 % for % versions
Accuracy and Repeatability:	± 2% of full scale
Drift:	Less than 2% of full scale per week
Response Time (T-90):	15 seconds to 90% step change
Ambient Temperature Range:	40° to 120°F (5° to 50°C), may be operated at lower temperature with auxiliary heater
Linearity:	± 2% of full scale
Size and Weight:	12" H x 10" W x 7" D @ 8lbs. (30 x 25 x 17.5 cm @ 3.6kg)
Power:	12 or 24 VDC; 115VAC / 60 Hz; or 220VAC / 50 Hz operation
Output Options:	0-1VDC or 4-20mA (select one); isolated 4-20mA also available as option
Alarm Options:	Optional High alarm with SPDT contacts 10A 115VAC rating, with indicator light for each alarm level; 'Sonalert' audible alarm with reset button; optional Low Flow alarm and strobe light also available. All alarms are 'fail safe'.

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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