



Dependable Gas Analysis Solutions

## 580 SERIES

### AMBIENT AIR ALARM MONITOR FOR CARBON MONOXIDE



### APPLICATIONS

Designed to monitor carbon monoxide (CO) in underground parking garages, service garages, around steel making furnaces, breathing air, or any other area where CO may be present.

### FEATURES

- Fast response to the presence of CO
- Instant warm up, no wait
- Bright digital readout
- Easy use and calibrate
- Modular layout that is easy to maintain
- 4-20mA output signal for recording
- NEMA 12 dust-tight enclosure

### OPTIONS

- Low range version for breathing air supplies
- CO alarm with relay contact and 'Sonalert' audible alarm with 'Acknowledge' button
- Low flow alarm
- NEMA 4 weather-proof enclosure
- Bright red strobe light for visible alarming

### CALIBRATION

- On N<sub>2</sub> for zero
- Analyzed calibration gas of CO in N<sub>2</sub> for span



580D - Diffusion Style  
580P - Pump Style



580R1 - Alarm Unit and Single Diffusion-Style Sensor in Separate Enclosures



580DR2 - Alarm Unit and Dual Diffusion-Style Sensors in Separate Enclosures

NOVA ANALYTICAL SYSTEMS

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

## DESCRIPTION

The Nova 580 Series carbon monoxide (CO) alarm monitors are designed for the continuous detection of CO in ambient air. The CO sensor is capable of excursions over 1000 PPM with no damage. The CO sensor is of the disposable electrochemical type with an expected life of between 3-4 years. The sensor needs no warm up time and is ready to go as soon as the monitor is turned on.

## MODELS

- 580D - one diffusion-type sensor in main cabinet
- 580DR1 - one diffusion sensor remote from main cabinet
- 580DR2 - two remote diffusion sensors
- 580DR3 - three remote diffusion sensors
- 580DR4 - four remote diffusion sensors
- 580P - built-in sample pump to draw in sample from another location
- 580BA - Breathing Air Monitor for compressed air lines with pressure regulator and a special 0-50 PPM low range CO sensor

## SPECIFICATIONS

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

<b>Method of Detection:</b>	Customer replaceable electrochemical CO sensor. Life expectancy is 3-4 years	
<b>Ranges Available:</b>	0-200 PPM standard on all models except 580BA which has a 0-50 PPM sensor	
<b>Resolution:</b>	1 PPM CO	
<b>Accuracy and Repeatability:</b>	Better than 1% of full scale	
<b>Drift:</b>	Less than 1% of full scale per week	
<b>Response Time (T-90):</b>	Less than 15 seconds to 90% step change	
<b>Ambient Temperature Range:</b>	32° to 120°F (0° to 40°C), 0-90% non condensing	
<b>Linearity:</b>	± 1% of full scale	
<b>Size and Weight:</b>	20" H x 16" W x 10" D @ 20lbs. (51 x 41 x 26 cm @ 10kg)	- may vary slightly depending on model and options selected.
<b>Power:</b>	115VAC 60Hz (220VAC 50Hz available)	
<b>Output Options:</b>	4-20mA non-isolated	
<b>Alarms:</b>	Optional High and/or Low alarm with SPDT contacts with 10A 115VAC rating, audible alarm with reset button, and indicator light for each alarm level; optional Low Flow alarm and strobe light also available.	

## UNIQUE APPLICATIONS

The 580 Series is not suitable for process or flue gas CO analysis. 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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