

# NOVA

Dependable Gas Analysis Solutions

## 585 SERIES

### AMBIENT AIR ALARM MONITOR FOR NITROGEN DIOXIDE



### APPLICATIONS

Designed to monitor and alarm for nitrogen dioxide (NO<sub>2</sub>) levels in ambient air near industrial sites, manufacturing facilities, combustion processes, etc.

### FEATURES

- Fast response to the presence of NO<sub>2</sub>
- Instant warm up, no wait
- Bright digital readout
- Easy to use and calibrate
- Modular layout that is easy to maintain
- 4-20mA output signal for recording
- NEMA 12 dust-tight enclosure

### OPTIONS

- Available in diffusion or pumped sampling configurations
- Low flow alarm on pumped sample models
- NEMA 4 & 4X weather-proof enclosures
- Alarm with relay contact and 'Sonalert' audible alarm with 'Acknowledge' button
- Bright red strobe light for visible alarming

### CALIBRATION

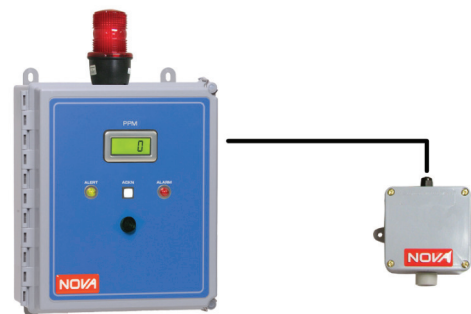
- On N<sub>2</sub> for zero
- Analyzed calibration gas of NO<sub>2</sub> in N<sub>2</sub> for span



**585P - Pump Style in NEMA 12 Enclosure**  
*(models shown with optional strobe light)*



**585D - Diffusion Style in NEMA 12 Enclosure**



**585DR1 - Alarm Unit and One Remote Diffusion-Style Sensor**

NOVA ANALYTICAL SYSTEMS

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

## DESCRIPTION

The Nova 585 Series Nitrogen Dioxide (NO<sub>2</sub>) alarm monitors are designed for the continuous detection of NO<sub>2</sub> in ambient air. The NO<sub>2</sub> 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

- 585D - one diffusion-type sensor in main cabinet
- 585DR1 - one diffusion sensor remote from main cabinet
- 585DR2 - two remote diffusion sensors
- 585DR3 - three remote diffusion sensors
- 585DR4 - four remote diffusion sensors
- 585P - built-in sample pump to draw in sample from another location

## 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 NO <sub>2</sub> sensor. Life expectancy is 3-4 years
<b>Ranges Available:</b>	0-20 PPM NO <sub>2</sub>
<b>Resolution:</b>	1 PPM NO <sub>2</sub>
<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 60 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>	12" H x 10" W x 7" D @ 12lbs. (30 x 25 x 17 cm @ 5.4kg) <small>- may vary slightly depending on model and options selected.</small>
<b>Power:</b>	115VAC 60Hz (220VAC 50Hz available)
<b>Output Options:</b>	0-1VDC or 4-20mA
<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

All Nova analyzers are built using proven technologies and techniques. However, the 585 Series is not suitable for many process or flue gas applications. 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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