

NOVA

Dependable Gas Analysis Solutions

501 SERIES

CONTINUOUS MULTI-GAS AMBIENT AIR MONITOR



APPLICATIONS

For simultaneous analysis of up to four gases in ambient air including O₂, CO₂, NO, NO₂, CO, temperature, and % RH. Single gas versions are also available for H₂S, SO₂, HCL, Cl₂, & NH₃.

FEATURES

- All gas detectors contained in NEMA 12 or optional NEMA 4 wall-mounted enclosure
- Separate sensor for each gas
- Bright digital readout for each gas
- Built-in sampling pump
- Easy to maintain modular layout

OPTIONS

- Recorder output of 4-20mA or voltage for all gases
- Isolated analog 4-20mA output available
- Alarm lights and relay contacts for each gas with common 'Sonalert' audible alarm and reset button
- Red strobe light mounted on top of analyzer
- Low sample flow alarm
- Multiple alarm points for measured gases
- Multipoint sampling using Nova 402AS AutoSequencer

CALIBRATION

- On clean air or nitrogen for Zero
- On analyzed calibration gas for Span



NEMA 12 and NEMA 4 enclosures shown with optional red strobe light

NOVA ANALYTICAL SYSTEMS

www.nova-gas.com

DESCRIPTION

The 501 Series four gas versions offer a choice of O₂, CO₂, CO, NO, & NO₂. Single gas versions are also available with H₂S, SO₂, Cl₂, HCL, & NH₃. An O₂ sensor may be added to the single gas versions to produce a toxic gas plus oxygen deficiency monitor. A built-in pump draws in the sample for analysis. A ¼" plastic tube may be attached to the analyzer to sample a different area, such as a room or confined space. Standard system comes with NEMA 12 enclosure, built-in sampling pump, flow meter, pre-filter, and liquid blocker.

Alarm option - alarms may be provided for all gases. An optional audible 'Sonalert' will sound if any reading goes into alarm and an indicator light beside each digital meter shows which gas is in alarm. A reset button is provided to silence the audible 'Sonalert'.

SPECIFICATIONS

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

Description

Method of Detection: O₂, CO, SO₂, NO, NO₂, H₂, HCL, CL₂, NH₃, and H₂S by electrochemical sensor, % RH by dielectric ceramic sensor, CO₂ by infrared sensor

Ranges Available: <i>(Customer's choice of gases; other ranges may be available upon request)</i>	0-25.0% O ₂	0-200 PPM H ₂	0-200 PPM CO	0-20 PPM NH ₃
	0-5000 PPM CO ₂	0-100 PPM NO	0-20 PPM CL ₂	0-20 PPM HCL
	0-50 PPM SO ₂	0-20 PPM NO ₂	0-20 PPM H ₂ S	0-100% RH

Resolution: 0.1% on O₂; 1 PPM on PPM gases; 1% RH; 0.1°C Temp.

Accuracy and Repeatability: ± 2% of full scale

Drift: < 2% per month

Response Time (T-90): Varies with individual sensor but generally under 2 minutes for full reading

Ambient Temperature Range: 40° to 105°F (4° to 40°C)

Linearity: Better than 2% of full scale

Size and Weight: Dimensions and weight will vary based on the number of gases and any required sample conditioning components

Power: 115VAC 60 Hz (220VAC 50 Hz available)

Output Options: 4-20mA into 500 ohms non-isolated standard
Optional outputs: isolated 4-20mA

Alarms: Optional - One low or one high O₂ alarm and one high alarm for all other gases. Separate SPDT relay contacts for each gas with 5A rating. Separate indicator lights. Common 'Sonalert' audible alarm with reset button. Field-adjustable set points.

UNIQUE APPLICATIONS

Warm-up time is approximately four minutes after initial power-up. The operating ambient humidity range for this series of analyzers is 0-90% RH non-condensing.



NOVA ANALYTICAL SYSTEMS
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