

# NOVA

Dependable Gas Analysis Solutions

## 600 SERIES PORTABLE MULTI-GAS AMBIENT AIR ANALYZER



### APPLICATIONS

For ambient air or confined space monitoring for up to any four choices of O<sub>2</sub>, CO<sub>2</sub>, NO, NO<sub>2</sub>, CO, LEL combustibles, temperature, and % RH. Single gas versions are also available for H<sub>2</sub>S, SO<sub>2</sub>, Cl<sub>2</sub>, HCL & NH<sub>3</sub>.

### FEATURES

- Rugged design that is easy to operate and maintain
- Fast warm-up and response
- Separate electrochemical sensor for each gas
- Sensitive infrared detector for CO<sub>2</sub>
- Catalytic sensor for combustibles
- Capacitive polymer sensor for % RH
- Digital readout with backlighting for each gas
- Built-in sampling pump, flow meter, filter and 12 ft. sampling hose
- Rechargeable battery
- Rugged suitcase (K) style case

### OPTIONS

- Recorder outputs of 0-1V or 4-20mA
- Audible and visual alarms
- Built-in printer
- Detachable/portable data logger

### CALIBRATION

- Nitrogen (N<sub>2</sub>) for zero
- Analyzed gas cylinders for span



600 Series 4-gas version shown

NOVA ANALYTICAL SYSTEMS

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

## DESCRIPTION

The Nova 600 Series Portable Multi-gas Ambient Air analyzers are convenient and accurate portable instruments for monitoring up to four gases simultaneously from ambient air samples. A built-in pump draws in the sample gas where it is analyzed by separate sensors/detectors. The detector outputs are then amplified and displayed on separate, easy-to-read digital meters.

The 600 Series four gas versions offer a choice of O<sub>2</sub>, CO<sub>2</sub>, CO, NO, NO<sub>2</sub>, & LEL Combustibles. Single gas versions are also available with H<sub>2</sub>S, SO<sub>2</sub>, Cl<sub>2</sub>, HCL, & NH<sub>3</sub>. An O<sub>2</sub> sensor may be added to the single gas versions to produce a toxic gas plus oxygen deficiency monitor.

The electrochemical sensors utilized in the 600 Series have a long service life of several years. The microprocessor NDIR detector for CO<sub>2</sub>, the RH sensor and the temperature sensor are all non-consumable and therefore also have a life of many years.

## SPECIFICATIONS

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

Description				
<b>Method of Detection:</b>	O <sub>2</sub> , CO, SO <sub>2</sub> , NO, NO <sub>2</sub> , HCL, CL <sub>2</sub> , NH <sub>3</sub> and H <sub>2</sub> S by electrochemical sensor, % RH by capacitive polymer, CO <sub>2</sub> by infrared sensor, combustibles by catalytic sensor			
<b>Ranges Available:</b> <i>(Customer's choice of gases; other ranges may be available upon request)</i>	0-25.0% O <sub>2</sub> 0-5000 PPM CO <sub>2</sub> 0-20 PPM SO <sub>2</sub>	0-100 PPM NO 0-20 PPM NO <sub>2</sub> 0-200 PPM CO	0-20 PPM CL <sub>2</sub> 0-20 PPM H <sub>2</sub> S 0-20 PPM NH <sub>3</sub>	0-100% RH 0-20 PPM HCL 0-50°C Temp.
<b>Resolution:</b>	0.1% on % O <sub>2</sub> , 1 PPM on PPM gases			
<b>Accuracy and Repeatability:</b>	± 2% of full scale			
<b>Drift:</b>	Less than 1% of full scale or 2 PPM per 8 hours, whichever is greater, with constant ambient temperature			
<b>Response Time (T-90):</b>	Varies with individual sensor but generally under 2 minutes for full reading			
<b>Ambient Temperature Range:</b>	40° to 120°F (4° to 49°C)			
<b>Linearity:</b>	Better than ± 2% of full scale			
<b>Size and Weight:</b>	15" W x 7" H x 12" D @ 14 lbs. (375 x 175 x 305 mm @ 6.4 kg)			
<b>Power:</b>	115VAC 60 Hz for recharging (220VAC 50 Hz also available)			
<b>Output Options:</b>	4-20 mA or 0-1 VDC, built-in printer, detachable datalogger			
<b>Alarms:</b>	Low battery & low flow alarms are standard, audible & visual alarms per gas are optional			

## UNIQUE APPLICATIONS

Warmup time is approximately four minutes. The operating humidity range for this series of analyzers is 0-90% RH non-condensing.



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