

# 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 LEL combustibles
- Capacitive polymer sensor for % RH
- Digital meter readout with backlight
- Built-in sampling pump, flow meter, filter and 12 ft. sampling hose
- Rechargeable battery
- Rugged suitcase (K) style case

### OPTIONS

- Recorder outputs of 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



600K series - standard suitcase enclosure (K)



600KX series - suitcase enclosure with external display (KX)

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 portable instruments for monitoring up to four gases from ambient breathable 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 an easy-to-read digital meter.

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.

## 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, LEL 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> 0-100 PPM NO      0-20 PPM CL <sub>2</sub> 0-100% RH / 0-50°C Temp. 0-5000 PPM CO <sub>2</sub> 0-20 PPM NO <sub>2</sub> 0-20 PPM H <sub>2</sub> S      0-20 PPM HCL 0-20 PPM SO <sub>2</sub> 0-200 PPM CO      0-20 PPM NH <sub>3</sub> 0-100% LEL (as CH <sub>4</sub> )
<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, built-in printer
<b>Alarms:</b>	Optional audible & visual alarms

## LIMITATIONS & UNIQUE APPLICATIONS

The Nova 600 Series is intended as a breathing air monitor, and is not marketed as an analytical instrument such as might be used in environmental applications and laboratories. Warmup time is approximately four minutes. The operating humidity range for this series of analyzers is 0-90% RH non-condensing.



NOVA ANALYTICAL SYSTEMS  
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