

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 O₂, CO₂, NO, NO₂, CO, LEL combustibles, temperature, and % RH. Single gas versions are also available for H₂S, SO₂, Cl₂, HCL & NH₃.

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 CO₂
- 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 (N₂) for zero
- Analyzed gas cylinders for span



600 Series 4-gas version shown

NOVA ANALYTICAL SYSTEMS

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 O₂, CO₂, CO, NO, NO₂, & LEL Combustibles. 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.

The electrochemical sensors utilized in the 600 Series have a long service life of several years. The microprocessor NDIR detector for CO₂, 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				
Method of Detection:	O ₂ , CO, SO ₂ , NO, NO ₂ , HCL, CL ₂ , NH ₃ and H ₂ S by electrochemical sensor, % RH by capacitive polymer, CO ₂ by infrared sensor, combustibles by catalytic sensor			
Ranges Available: <i>(Customer's choice of gases; other ranges may be available upon request)</i>	0-25.0% O ₂ 0-5000 PPM CO ₂ 0-20 PPM SO ₂	0-100 PPM NO 0-20 PPM NO ₂ 0-200 PPM CO	0-20 PPM CL ₂ 0-20 PPM H ₂ S 0-20 PPM NH ₃	0-100% RH 0-20 PPM HCL 0-50°C Temp.
Resolution:	0.1% on % O ₂ , 1 PPM on PPM gases			
Accuracy and Repeatability:	± 2% of full scale			
Drift:	Less than 1% of full scale or 2 PPM per 8 hours, whichever is greater, with constant ambient temperature			
Response Time (T-90):	Varies with individual sensor but generally under 2 minutes for full reading			
Ambient Temperature Range:	40° to 120°F (4° to 49°C)			
Linearity:	Better than ± 2% of full scale			
Size and Weight:	15" W x 7" H x 12" D @ 14 lbs. (375 x 175 x 305 mm @ 6.4 kg)			
Power:	115VAC 60 Hz for recharging (220VAC 50 Hz also available)			
Output Options:	4-20 mA or 0-1 VDC, built-in printer, detachable datalogger			
Alarms:	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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