

NOVA

Dependable Gas Analysis Solutions



7460 SERIES PORTABLE ENGINE EXHAUST ANALYZERS

APPLICATIONS

For checking engine exhaust emissions for diesel, gasoline, propane, or natural gas powered 2 and 4 cycle engines. Analysis of carbon monoxide (CO), hydrocarbons (HC's), carbon dioxide (CO₂), oxygen (O₂), oxides of nitrogen (NO_x), nitric oxide (NO), and nitrogen dioxide (NO₂).

FEATURES

- Rugged design, easy to operate and maintain
- Fast warm up and accurate response
- Large digital readouts with backlight for each gas
- Solid state infrared detectors for CO, CO₂, and HC's
- Rechargeable battery operation (recharge from vehicle or from AC adapter)
- Provided with sample filter, and flexible sample probe with 12 ft. of hose, built-in sample pump and automatic condensate removal
- Meets Bar 97 and ISO 3930/OIML R99, Class O specifications

OPTIONS

- Analog 4-20 mA outputs
- Built-in printer (add 'P' suffix)
- Datalogger for PC computer
- Add NO (as NO) to any analyzer (add 'N' suffix)
- Add NO₂ to any analyzer (add 'X' suffix)
- PPM CO in place of '%' (add 'L' suffix)
- For continuous analysis - see 7200 Series

CALIBRATION

- Zero on air
- Span on analyzed calibration gases



Standard engine
exhaust probe with
flexible tip

NOVA ANALYTICAL SYSTEMS INC.

www.nova-gas.com

DESCRIPTION

The 7460 Series Portable Analyzers are available in six versions for the simultaneous measurement of the gases typically found in the exhaust from internal combustion engines. CO, CO₂, and HC's are detected by a dual-wavelength infra red detector. The O₂ and NO_x (as NO) are detected by customer-replaceable electrochemical sensors. The optional NO₂ and low range CO channels are also detected by electrochemical sensors. All detector outputs are displayed on large separate front panel digital meters. Optional built-in printer, datalogger and 4-20 ma recorder outputs are also available.

The 7460 Series Analyzers are complete with built-in sampling pump, flow meter, automatic condensate removal, filters, PTFE liquid blocker, 12 ft. (4m) sampling hose, and stainless steel filter probe. Also included are a cigarette lighter power plug and remote printer actuator button for printer-equipped models.

MODELS

Standard models available in suitcase (K) style cabinet.

- 7461: CO, CO₂, or HC's only
- 7462: CO and Hydrocarbons (HC's)
- 7463: CO, CO₂, and HC's
- 7464: O₂, CO, CO₂, and HC's
- 7465: O₂, CO, CO₂, HC's, and NO_x (as NO)
- 7466: O₂, CO, CO₂, HC's, and NO & NO₂

SPECIFICATIONS

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

Description

Method of Detection: CO (standard range), CO₂, and HC by infrared detector
CO (low range), NO, NO₂, and O₂ by long life electrochemical sensor.

Available Ranges: 0-5.00% / 10.00% CO (standard range) 0-25.0% O₂
0-2,000 / 5,000 / 10,000 PPM CO (low range) 0-20.0% CO₂
0-2,000 / 5,000 PPM NO_x (as NO) 0-800 PPM NO₂
0-2,000 / 5,000 / 10,000 / 20,000 PPM HC's (as hexane or propane)

Resolution: 0.1% on % ranges, 0.01% on standard range CO, 1 PPM on most PPM ranges

Accuracy and Repeatability: ± 1% of full scale for O₂, CO, CO₂, and HC's; ± 2% of full scale for NO_x

Drift: < ± 1% in 8 hours after full warmup

Response Time (T90): 8-10 seconds

Ambient Temperature Range: 0 to 40°C

Linearity: ± 1.0% of full scale each gas measured

Size And Weight: K style - approx. 14"W x 6"H x 10 1/2"D (35.5 x 15.2 x 26.6 cm), 12 lbs (5.5 kg)

Power: 115 VAC or 220VAC, 50/60Hz for recharging. Also 12VDC for cigarette lighter socket

Optional Outputs: 4-20mA or 0-1VDC, RS232, RS485



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