



7460 SERIES RUGGED PORTABLE ANALYZERS FOR ENGINE EXHAUST EMISSIONS

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 (NOx), 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





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 NOx (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) or benchtop (BT)

• 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 NOx (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), CO ₂ , and HC by infrared detector CO (low range), NO, NO ₂ , and O ₂ by long life electrochemical sensor.	
Available Ranges:	0-5.00% / 10.00% CO (standard range) 0-2,000 / 5,000 / 10,000 PPM CO (low range) 0-2,000 / 5,000 PPM NOx (as NO) 0-2,000 / 5,000 / 10,000 / 20,000 PPM HC's (as hexane or propand	0-25.0% O ₂ 0-20.0% CO ₂ 0-800 PPM NO ₂
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 HCs; ± 2% of full scale for NOx	
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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