NOVA

Dependable Gas Analysis Solutions

MODEL 7466K
PORTABLE ENGINE EXHAUST ANALYZER

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 (CO_2), oxygen (O_2), oxides of nitrogen (NOx), nitric oxide (NO), and nitrogen dioxide (NO_2).

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, CO_2, and HC's
- Electrochemical sensors for O2, ppmCO, NO, NO2
- 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 with detachable data-logger; data uploadable to PC with included software
- Built-in printer, with remote print button
- PPM CO in place of % CO measurements for recent design engines with lower emissions

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 Model 7466K Portable Analyzer is designed for the simultaneous measurement of gases typically found in the exhaust from internal combustion engines. CO, CO_2, and HC's are detected by a dual-wavelength infra red detector. The O_2 and NOx (as NO & NO_2) are detected by customer-replaceable electrochemical sensors. The % CO channel may be substituted with an optional low range ppmCO channel which is also measured by electrochemical sensor.

All detector outputs are displayed on large separate front panel digital meters. Optional built-in printer, 4-20mA recorder outputs with datalogger and software are also available.

The 7466K comes complete with built-in sampling pump, flow meter, automatic condensate removal, internal filters, PTFE liquid blocker, 12 ft. (4m) sampling hose, and stainless steel tail-pipe probe. Also included are a 12V automobile-style power plug, standard wall plug recharger, plus remote printer actuator button for printer-equipped models.

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)* 0-25.0% O_2 0-2,000 / 5,000 / 10,000 PPM CO *(low range)* 0-20.0% CO_2 0-2,000 / 5,000 PPM NOx *(as NO)* 0-800 PPM NO_2 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 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 for data-logger

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Available from:

Gas DetectorsUSA

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