

OPTIMA⁷ NDIR

HAND HELD AUTOMOTIVE NDIR GAS ANALYZER



O₂

CH₄

CO₂

CO

NO_x

NO

°F

Δ°F



since 1984 ®

AIR fair

EMISSION MONITORING SYSTEMS

- Measurement of up to 5 car exhaust gas components:
 - ▶ CO, CO₂, HC (NDIR)
 - ▶ O₂ and NO_x (electrochemical)
- Lambda calculation
- Engine oil temperature

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Suitable for real time measurements of petrol (gasoline) and diesel car exhaust gas.

Intuitive software menu and bright colour display will guide you through all measuring programs. Electrochemical cells for O₂ and NO together with high-tec NDIR bench for CO, CO₂ and HC measures fast and accurate the exhaust gas.

Store up to 16,000 data sets directly in the analyzer's internal data storage or on micro-SD card, or even use Bluetooth™ for wireless data transfer to notebook or MRU4u data app for smartphone or tablet. Printing via infrared, high speed thermal printer is at the tip of your fingers.

Main features:

- >> Exhaust gas measurement for all petrol (gasoline) and diesel engines
- >> Engine oil temperature measurement
- >> P.E.F. factor (required for calibration)
- >> High-range CO measurement using infrared bench
- >> Rechargeable Lithium-Ion battery for approx. 8 hours operation
- >> Lambda calculation using Brettschneider formula
- >> Automatic measurement with averaging
- >> O₂ longlife sensor

TECHNICAL SPECIFICATIONS

OPTIMA 7 analyzer			Handheld analyzer with 3 gas NDIR and electrochemical sensors		
Measured components			Measuring range	Resolution	Accuracy
CO	Carbon monoxide	NDIR	0 ... 16.000 Vol.-%	0.001%	± 0.02 % or 3% reading **
CO ₂	Carbon dioxide	NDIR	0 ... 20.00 Vol.-%	0.01%	± 0.03 % or 5% reading **
HC	Hydrocarbon	NDIR	0 ... 20,000 ppm	1 ppm	± 12ppm or 3% of reading **
O ₂	Oxygen	Electro-chem	0 ... 25.00 Vol.-%	0.01%	± 0.2 % Vol. abs
NO	Nitric oxide	Electro-chem	0 ... 1,000 / 5,000 ppm*	1 ppm	± 5 ppm or 5 % reading up to 1,000 ppm ** or 10 % reading up to 5,000 ppm **
Engine oil temperature T.oil			0 ... 392 °F	0.1°F	± 4 °F
Airtemperature T. Air			0 ... 212 °F	0.1°F	± 2 °F
Differential pressure			- 40 ... + 40 inH ₂ O hPa	0.01 hPa	± 0.02 hPa

*overload range recommend only for short time measurements

**which ever is larger

Calculated values	
Lambda	0 ... 99,9 (using Brettschneider)
P.E.F.	propane equivalency facto

General specifications	
Operation temperature	41°F 113°F, max. 95 % RH, non condensing
Storage temperature	-4°F 122°F
Data storage	up to 16,000 data sets
Ambient conditions	not in aggressive, corrosive or high dust environments, not for use in hazard
Power supply	Lithium-Ion battery, 6 to 8 hours operation
Grid power supply	100 - 240 V AC / 50 ... 60 Hz 1A
Protection class	IP30
Weight	approx. 2.2 lbs.
Dimensions	(W x H x D) 4.3" x 8.8" x 2.04"

Data subject to change without notice

Support and sales by:

