

EMISSION MONITORING SYSTEMS

Over 30 years of innovative gas analysis!

HAND HELD AUTOMOTIVE NDIR GAS ANALYZER



Engine oil temperature

P.E.F. factor



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 >>

Lambda calculation using Brettschneider formula >>

P.E.F. factor (required for calibration)

- Automatic measurement with averaging
- High-range CO measurement using infrared bench >>
- O2 longlife sensor >>
- Rechargeable Lithium-Ion battery for approx. 8 hours operation

TECHNICAL SPECIFICATIONS

Calculated values

OPTIMA 7 analyzer	Handheld analyzer with 3 gas NDIR and electrochemical sensors
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Measured components			Measuring range	Resolution	Accuracy
СО	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 **
нс	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 5,0000 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 inH2OhPa	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 Lithium-Ion battery, 6 to 8 hours operation Power supply **Grid power supply** 100 - 240 V AC / 50 ... 60 Hz 1A **Protection class** IP30

Weight approx. 2.2 lbs. (WxHxD)4.3"x8.8"x2.04" **Dimensions**

Data subject to change without notice



Support and sales by: