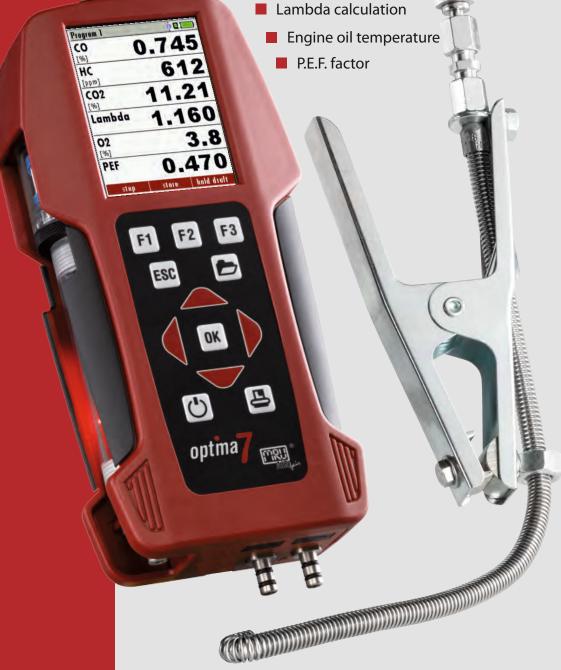


Powerful handheld multigas analyser

for petrol or diesel engine exhaust gas measurements

5 gas measurements















MRU - over 30 years of innovative gas analysis!

The slim multi talent handheld car exhaust gas analyser

Suitable for real time measurements of petrol 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 analyser'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.







Shoulder strap



Convenient nylon bag



Main features:

- exhaust gas measurement for all petrol 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 measurement
- rechargeable Lithium-lon battery for approx. 8 hours operation



Hands free operation with magnets which can fix the analyser on any magnetic object.



Storage, transfer or print measured data
using the multiple choices among micro-SD card, mini-USB, Bluetooth™ for wireless transfer to smartphone or tablet and infrared printing.



Condensate and dirt are kept away using the large condensate trap with Teflon coated particulate filter.



Oil temperature probe with NiCrNi thermocouple



Gas sampling probe with flexible tube and Viton hose



Product information: see www.mru.eu or scan adjacent OR-code

OPTIMA7 NDIR

Technical specifications

Measurement components	Range	Resolution	Accuracy
Carbon monoxide CO NDIR	0 16,000 Vol%	0,001%	± 0,02 % or 3 % reading**
Carbon dioxide CO ₂ NDIR	0 20,00 Vol%	0,01%	± 0,03 % or 5 % reading **
Hydrocarbon HC NDIR	0 20.000 ppm	1 ppm	± 12 ppm or 3 % reading**
Oxygen O2	0 25,00 Vol%	0,01 %	± 0,2 Vol% abs.
Nitric monoxide NO	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	0 200 °C	0,1°C	± 2℃
Air temperature T.air	0 100°C	0,1 °C	± 1 °C
Differential pressure	– 100 + 100 hPa	0,01 hPa	± 0,02 hPa
Calculated values			
Lambda	0 99,9 (using Brettschneider)		
P.E.F.	propane equivalency factor		
General specifications			
Operation temperature	+ 5 + 45 °C, max. 95 % RH, non condensing		
Storage temperature	0 + 50 °C		
Data storage	dynamic, up to 16.000 measurements		
Interfaces	mini-USB, SD, Infrared, Bluetooth™ (data transfer to smartphone, tablet or PC)		
Power supply	high energy Lithium-lon battery (approx. 8 h operation)		
Mains	wall-plug grid power supply, 100 - 240 Vac / 50 60 Hz		
Protection class	IP 30		
Weight	approx. 750 g		
Dimensions	110 x 225 x 52 mm (W x H x D)		

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 ${\sf MRU}\ representative:$



MRU · Messgeräte für Rauchgase und Umweltschutz GmbH Fuchshalde 8 + 12 74172 Neckarsulm-Obereisesheim Tel 07132 99620 Fax 07132 996220 info@mru.de www.mru.eu