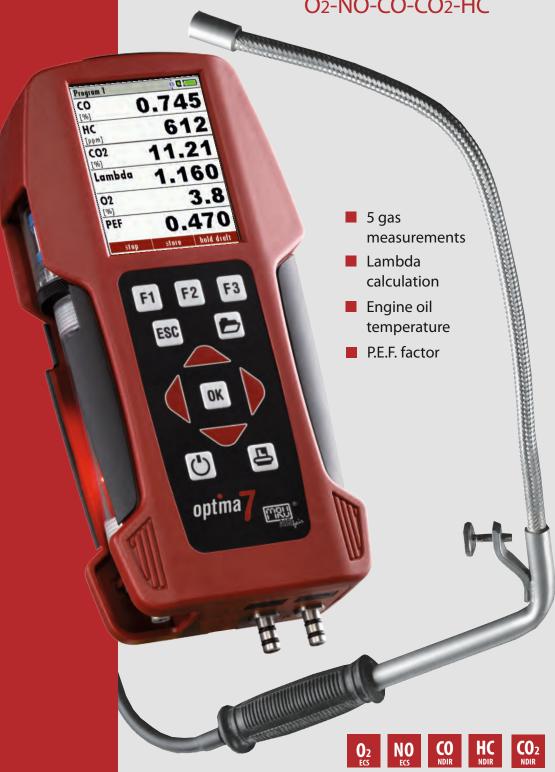


## **Powerful handheld** multigas analyser

for petrol or diesel engine exhaust gas measurements

O2-NO-CO-CO2-HC





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 O<sub>2</sub> and NO together with high-tec NDIR bench for CO, CO<sub>2</sub> 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.







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.



Convenient nylon bag



Oil temperature probe with NiCrNi thermocouple



- exhaust gas measurement for all petrol and diesel engines
- engine oil temperature measurement
- Lambda calculation using Brettschneider formula

Shoulder strap

- P.E.F. factor (required for calibration)
- automatic measurement with averaging
- high-range CO measurement using infrared bench
- O₂ longlife measurement
- rechargeable Lithium-Ion battery for approx. 8 hours operation



Gas sampling probe with flexible tube and Viton hose



Product information: see www.mru.eu or scan adjacent QR-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 <sub>2</sub> 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°C
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)		



#### MRU – sustainable analysing technology for more than 30 years!

MRU · Messgeraete fuer Rauchgase und Umweltschutz GmbH

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