



# Gas Analyzer + Smokemeter RY-4000AGH

Compatible with gasoline and diesel vehicles



## Description

The **Gas Analyzer RY-4000AG** is a modern equipment, prepared and ready to meet the requirement of **OIML R00 Class 1 and O, ISO 3930, UNE 8251, bar 90, bar 97, U.S EPA ASM.**

Based on **infrared technology** it **measures up to 5 gases** and other parameters such as corrected Lambda CO, oil temperature and rpm.

The **Smokemeter RY-500AH** is a **modern equipment**, prepared and ready to meet the requirements of **UNE 82503** and **DIN 57411, SAE J1677 USA/Canada.**

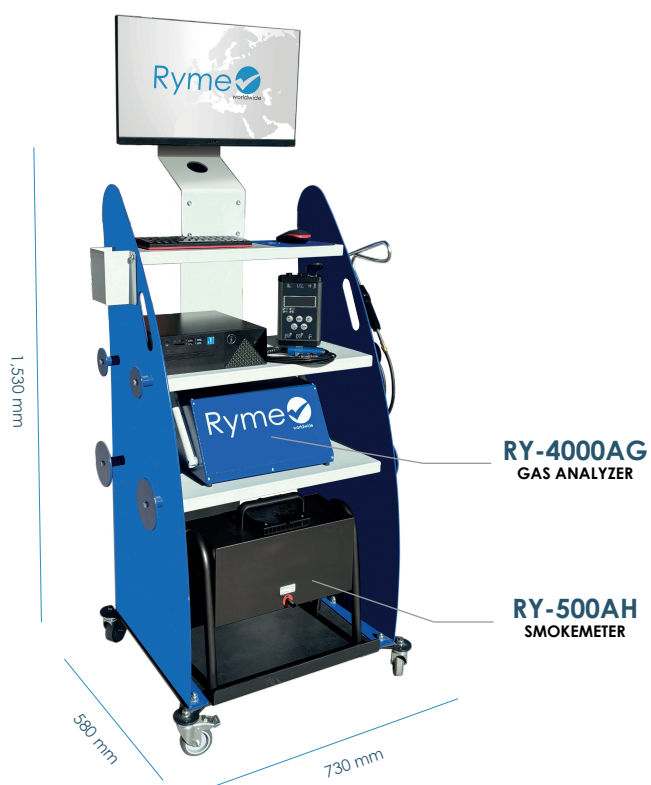
- ✓ Dual exhaust measurement capability
- ✓ Adapted for measuring and calculating Lambda in GLP, GNC and GNL vehicles

## Standard Equipment

- ✓ Gas Analyzer module + Smokemeter
- ✓ Dedicated cabinet for emissions
- ✓ Sampling probes
- ✓ Electronic control and SMRW software
- ✓ External temperature meter and rpm with a magnetic probe
- ✓ Commissioning certificate for module F RY-500AH

## Technical Data RY-4000AG

Storage temperature	-50 °C to 70 °C
Operation temperature	-12 °C to 48 °C
Atm pressure	750 a 1,100 mbar
Automatic removal of water and particles	
Power supply	115 - 230 V 50 - 60 Hz
Nominal/minimum flow	4.2 / 3 l/min
Connection	R232 series
Oil temperature meter	0 - 150 °C / Resol. 1 °C
rpm meter	0 - 9,990 / Resol. 10 rpm
Lambda	0.8 - 1.2

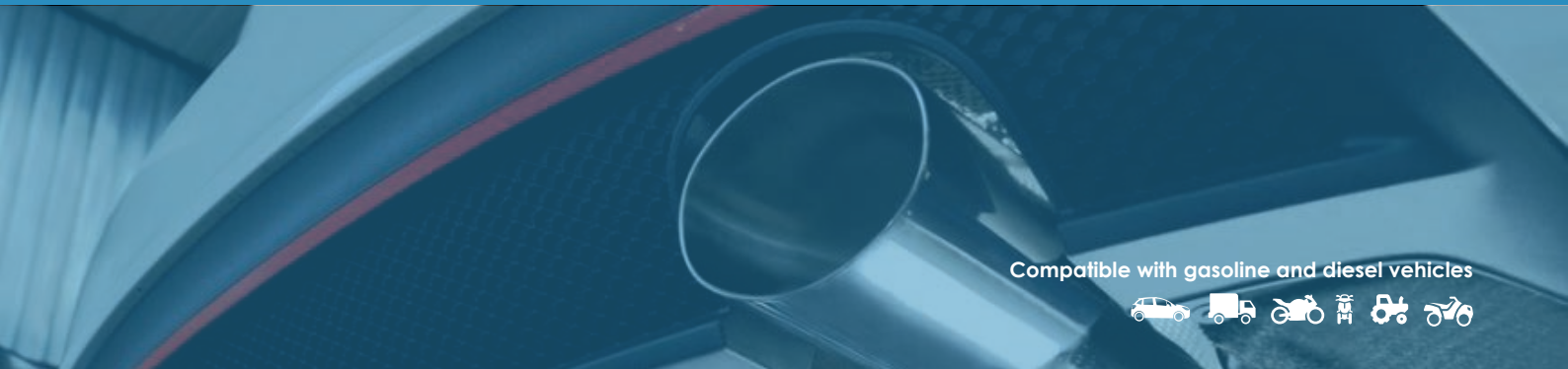


## Measurement range and resolution

Measurement	Range	Resolution	Method
HC	0 - 19,999 ppm	1 ppm	NDIR
CO	0 - 15 %	0.01%	NDIR
CO <sub>2</sub>	0 - 20 %	0.1 %	NDIR
O <sub>2</sub>	0 - 25 %	0.01 %	Cell
NO <sub>x</sub> (op.)	0 - 4,000 ppm	10 ppm	Cell



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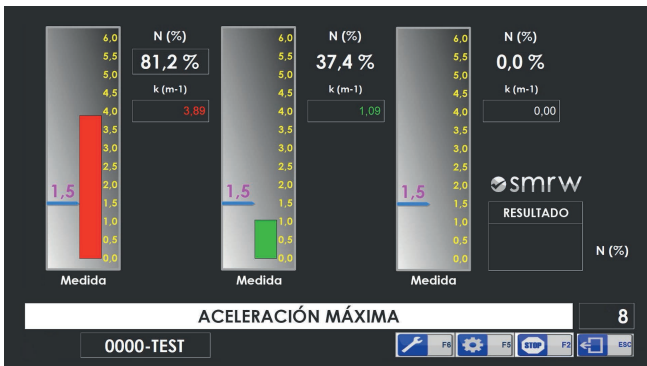
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## Software



RY-4000AG GAS ANALYZER SOFTWARE



RY-500AH SMOKEMETER SOFTWARE

## Technical Data RY-500AH

Environmental operation conditions	Op. temp: -10 °C to 55 °C
	Official op. temp: 0 °C to 45 °C
	Humidity: 30 % to 90 %
	Pollution: < 2 %
Storage temperature	-32 °C to 55 °C
Optic	Green LED light source between 480 and 680 nm (max. 565 nm)
Detector	Silicon photodiode
Response time	10 % to 90 % < 0.2''
Acoustic noise	53 dB
Warm-up period	3 - 6'
Standard test probe	745 mm / 110 mm
	N range: 0 - 100 %
Opacity	N resolution: 0.10 % K range: 0.00 - 9.99 m <sup>-1</sup> K resolution: 0.01 m <sup>-1</sup>
Power supply	230 V / 50 Hz
Dimensions and weight	460 x 220 x 360 mm 9 kg

Measurement of opacity in % and absorption coefficient K calculated according to Beer-Lambert's law

## Optional Equipment RY-4000AGH

- Optional equipment: Voltage stabilizer
- Optional equipment: Tachometer and accessories kit for rpm measures
- Optional equipment: NO<sub>x</sub> sensor
- Optional equipment: Gas inlet hose with double probe
- Optional equipment: Motorcycle exhaust adaptor kit
- Optional equipment: Calibration lenses with ENAC certificate

- Optional equipment: Pole for vehicles with vertical exhaust