



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**.

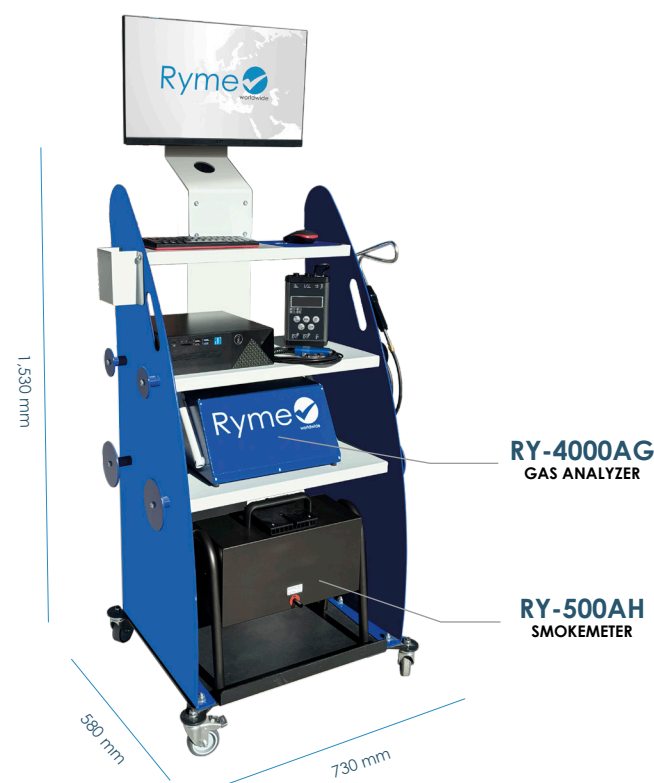
- ✓ Dual exhaust measurement capability
- ✓ Adapted for measuring and calculating Lambda in GLP, GNC and GNL vehicles

Standard Equipment

- ✓ Gas Analyzer module + Smokemeter
- ✓ Dedicated cabinet for emissions
- ✓ Sampling probes
- ✓ Electronic control and SMRW software
- ✓ 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 ₂	0 - 20 %	0.1 %	NDIR
O ₂	0 - 25 %	0.01 %	Cell
NO _x (op.)	0 - 4,000 ppm	10 ppm	Cell



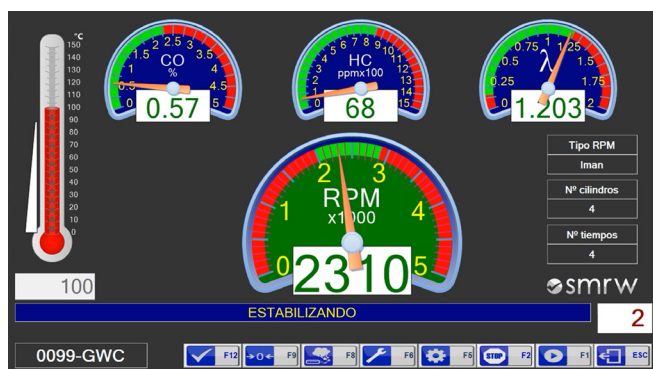
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Ryme 
worldwide

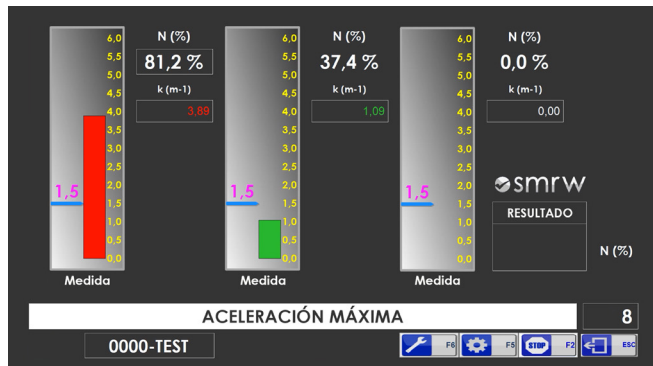
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Software



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

Opacity

N range: 0 - 100 %
N resolution: 0.10 %
K range: 0.00 - 9.99 m⁻¹
K resolution: 0.01 m⁻¹

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



External temperature meter and rpm with
a magnetic probe



NO_x sensor

Gas inlet hose with double probe



Motorcycle exhaust adaptor kit

Calibration lenses with ENAC certificate

Optional equipment



Pole for vehicles with vertical exhaust