



Gas Analyzer + Smokemeter RY-500AGH

Ryme  worldwide

Compatible with gasoline and diesel vehicles



Description

The **Gas Analyzer RY-500-AG** is a modern equipment, prepared and ready to meet the requirement of **OIML R00 Class 1 and 0, 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-500-AH** is a **modern equipment**, prepared and ready to meet the requirements of **UNE 82503 and DIN 57411, SAE J1677 USA/Canada**, it allows to perform an official opacity test (light).

**Ryme Worldwide offers an integrated set
Gas Analyzer + Smokemeter RY-500AGH.**

- ✓ Dual exhaust measurement capability
- ✓ Adapted for measuring and calculating Lambda in GLP, GNC and GNL vehicles.
- ✓ It has a database and a rejection assesment

Standard Equipment

- ✓ Gas analyzer module + smokemeter module
- ✓ Emissions dedicated furniture
- ✓ Sampling probes
- ✓ Electronic control and SMRW software
- ✓ Temperature and rpm meter
- ✓ Commissioning certificate for module F RY-500AH

Technical Data RY-500AG

Measurable gases	HC / CO / CO ₂ / O ₂ / NO _x optional
Lambda factor calculation and corrected CO	
Storage temperature	-50 °C to 70 °C
Operation temperature	-10 °C to 55 °C
Atm pressure	750 to 1,150 mBar
Automatic removal of water and particles	
Power supply	115 - 230 V 1,5 A 47 - W63 Hz
Regulations	OIML R99 ISO3930 BAR97
Dimensions and weight	400 x 380 x 220 mm 12 kg



Measurement ranges and resolution

Gas	Measurement range	Regular	High
HC	0 - 20,000 ppm	1 ppm	1 ppm
CO	0 - 15 %	0.01 %	0.01 %
CO ₂	0 - 20 %	0.0 %	0.1 %
O ₂	0 - 25 %	0.0 %	0.01 %
NO _x (op.)	0 - 5,000 ppm	10 ppm	10 ppm
Lambda	0.8 - 1.2		
Measurement	Range	Resolution	
Regime	0 - 9,999 rpm	10 rpm	
Oil temperature	- 5 to 150 °C	1 °C	



Gas Analyzer + Smokemeter RY-500AGH

Ryme 
worldwide

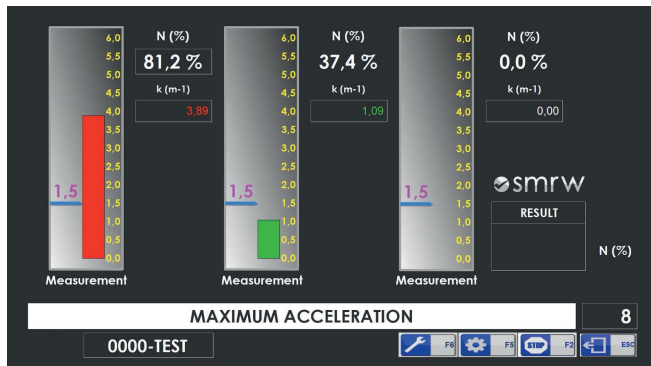
Compatible with gasoline and diesel vehicles



Software



RY-500AG GAS ANALYZER SOFTWARE



RY-500AH SMOKEMETER SOFTWARE

Optional Equipment RY-500AGH

Optional equipment



Voltage stabilizer



Tachometer and accessories kit for rpm measures



Tachometer and accessories kit for rpm measures



NO_x sensor

Gas inlet hose with double probe



Motorcycle exhaust adaptor kit

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 mm)

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

Calibration lenses with ENAC certificate



Pole for vehicles with vertical exhaust

Approved extensor probe:
1,500 mm, 3,840 mm y 4,000 mm



You can check our versions without furniture based on these same equipments and the references: RY-3200AG (Gas analyzer), RY-3200AH (Smokemeter) and RY-3200AGH (both equipments integrated).