



Gas Analyzer + Smokemeter RY-3200AGH



Compatible with gasoline and diesel vehicles



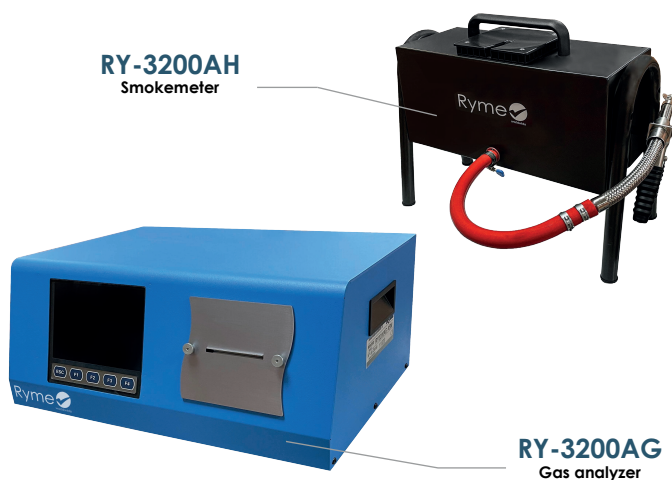
Description

The **Gas Analyzer RY-3200AG** 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-3200AH** 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).

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



Standard Equipment

- ✓ Gas Analyzer module + Smoke Analyzer module
- ✓ Sampling probes
- ✓ SMRW software and electronic control
- ✓ Temperature and rpm meter
- ✓ Commissioning certificate for module F RY-3200AH

Technical Data RY-3200-AG

Measurable gases	HC / CO / CO ₂ / O ₂ / NO _x (op.)
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 - 63 Hz
Regulations	OIML R99 ISO3930 BAR97
It has a database and a rejection assesment	
Dimensions and weight	400 x 400 x 190 mm 10 kg

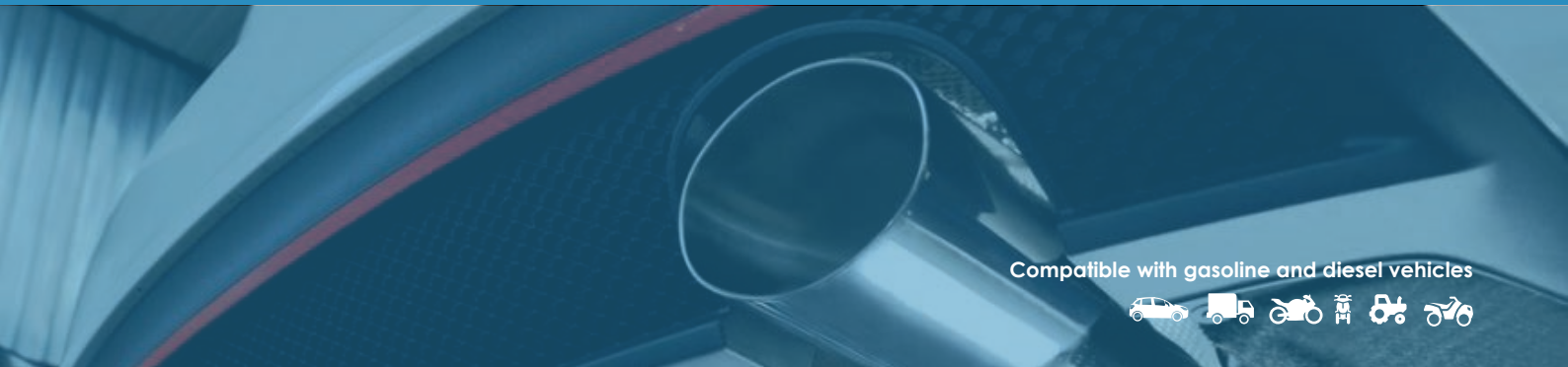
Measurement ranges and resolution

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 %	0.1 %	0.1 %
O ₂	0 - 25 %	0.01 %	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	- 5 to 150 °C	1 °C



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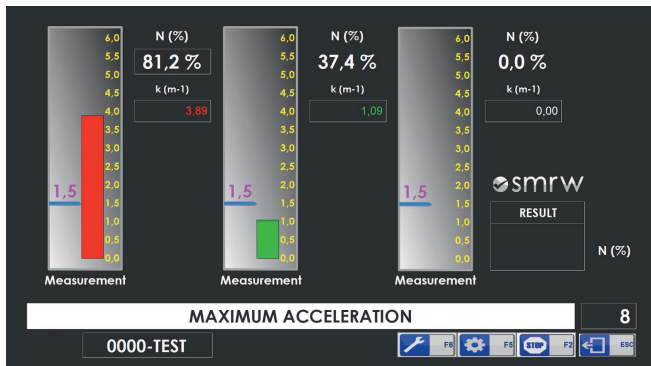
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Software



RY-3200AG GAS ANALYZER SOFTWARE



RY-3200AH SMOKEMETER SOFTWARE

Optional Equipment RY-3200AGH

Optional equipment	
	Voltage stabilizer
	Tachometer and accessories kit for rpm measures
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	NO _x sensor
	Gas inlet hose with double probe
	Motorcycle exhaust adaptor kit

Technical Data RY-3200-AH

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 mm (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
	N range: 0 - 100 %
Opacity	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 with furniture based on the same equipments and the references: RY-500AG (Gas analyzer), RY-500AH (Smokemeter) and RY-500-AGH (both equipments integrated).