



# Gas Analyzer + Smoke Meter EIS-5000

Compatible with gasoline and diesel vehicles



## Description

The **EIS-5000 Gas Analyzer and Smoke Meter** is a modern equipment prepared to work under DIN 57411, SAE J1677 USA/Canada (opacimeter) and OIML R99 Classes 1 and 0, **ISO 3930:2009**, UNE 82501, Bar 90 and 97, and US EPA ASM (Gas Analyzer).

Adapted to current regulations for vehicles with dual exhaust system, and the exhaust system, and possibility of performing two measurements.

Among the Autozero systems on the market, the EIS 5000 can boast **the most powerful Zero in the world, as it is made using canisters that generate pure Zero air**, leaving behind carbon filters.

- ✓ The OBDII DAD peripheral with USB and Wi-Fi communication is capable of obtaining all the necessary data required by the BAR97.
- ✓ First gas analyzer compatible with all dynamometer benches on the market.

## Standard Equipment

- ✓ Gas Analyzer and Smoke Meter module
- ✓ Sample collection probe
- ✓ Temperature sensor and OBDII DAD
- ✓ Electronic control and SMRW software
- ✓ Zero air generator via cylinders

## Optional Equipment

### Optional equipment

2D Barcode scanner



Stickers printer



Fingerprint scanner



Leak tester for fuel plugs



Voltage stabilizer



Tachometer and accessory kit for rpm measures



Tachometer and accessory kit for rpm measures

OBD and software



NO<sub>x</sub> Sensor

Double probe hose



Motorcycle exhaust pipe adaptation kit



Pole for vehicles with vertical exhaust

ENAC-certified calibration lenses (20% / 37% / 60%)

Probe extension



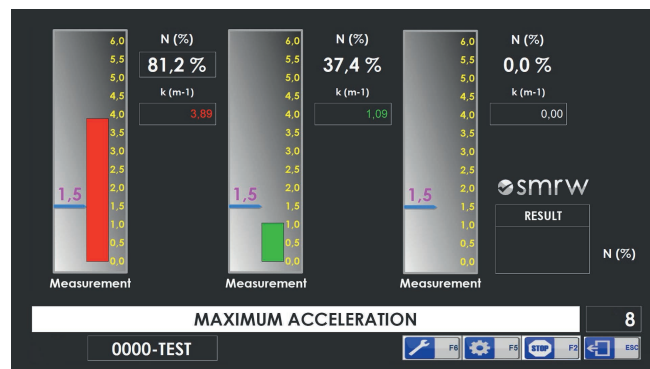
The EIS-5000 cabinet includes protection and safety systems in all its compartments to eliminate any possible tampering. Consult our possibilities in terms of security.



## Software



EIS-5000 GAS ANALYZER SOFTWARE



EIS-5000 SMOKEMETER SOFTWARE

## Gas Analyzer Technical Data

Measurable gases	HC/CO/CO <sub>2</sub> /O <sub>2</sub> /NO <sub>x</sub> (op.)
Calculation of Lambda factor and corrected CO	
Storage temperature	- 50 °C to 70 °C
Operating pressure	812 to 1,085 mbar
Automatic water and particle removal	
Power supply	230 V / 50 or 60 Hz
Oil temperature/resolution	OBD
r.p.m/resolution	OBD
Rejection valuation	Yes
Humidity	5 - 95 % ± 8 %
Environmental conditions	0 - 140 F ± 3 % (- 18 °C to 60 °C)
Barometric pressure	24 - 32 in. Abs ± 3 % (812 - 1,085 mbar)
Pneumatic pressure	80 - 90 psi (5.5 - 6.2 bar)

## Measuring ranges and resolution

	Measurement range	Resolution	High
HC	0 - 20,000 ppm	1 ppm	N/A
CO	0 - 15 % vol.	0.01 % vol.	N/A
CO <sub>2</sub>	0 - 20 % vol.	0.1 % vol.	N/A
O <sub>2</sub>	-0.8 - 21.7 % vol.	0.1 % vol.	0.01 %
NO <sub>x</sub> (op)	0 - 5,000 ppm	1 ppm	10 ppm
Lambda	0.8 - 1.2	0.01	0.001%

Measurement	Range	Resolution
Regime	0 - 9,999	Depends on the device
Oil temperature		OBD

## Smoke Meter Technical Data

Environmental working conditions	
Operating temperature	-10 °C to +55 °C
Official operating temperature	0 °C to 45 °C
Humidity	30 % to 90 %
Pollution	< 2 %
Optics	Strong green light between 480 y 680 nm / max. 565 nm
Detector	Sicilium photodiode
Acoustic noise	53 dB
Warm-up period	3 - 6'

Standard test probe	745 mm / 10 mm
Power supply	230 V / 50 Hz
Standards	ISO 11614 CEM UNE 82503 NFR 10025 - 2016
Measurement of opacity in % and absorption coefficient K calculated according to the Beer-Lambert law.	

## Measuring ranges and resolution

	Measuring range	Resolution
N	0 - 99.9 %	0.10 %
K	0,00 - 9.99 m <sup>-1</sup>	0.01 m <sup>-1</sup>