

AutoGas Five Gas Analyser And AutoSmoke

Five Gas Analyser & Opacity / Smoke Density Meter

AutoTest's combined **AutoGas® Five Portable Gas Analyser** and **AutoSmoke® Opacity Meter** are user friendly analysis tools designed to improve how the gas efficiency of a vehicle is measured.

Distributed throughout the world, it is suitable for both light and heavy vehicles.

Battery operated, the AutoGas® and the AutoSmoke® measures the contents of the exhaust gas and lets you know how efficient a vehicle is at reducing the amount of pollutant gases being released into the atmosphere.

AutoTest® AutoSmoke

AutoTest® AutoSmoke opacity meter is a compact, lightweight, robust, and reliable vehicle smoke analysis tool. Easy to use and maintain, it can be integrated with the AutoTest® AutoGas 4 or 5 gas analyser to provide a comprehensive vehicle emissions testing solution.

AutoSmoke Specifications

General

- **Power:** Designed to be powered either in 13.5 VDC or 230 VAC
- **Effective optical length:** 215mm +/-0.5mm
- **Tube Preheating time:** 3 to 6 min
- **Resolution:** 0.1% or 0.01 m⁻¹
- **Accuracy:** < 1.0% of opacity in the full range
- **Light Source:** (LED) spectral peak 560nm ±10nm
- **Light Detector:** peak spectral response 560nm ±10nm
 - N value: 0.00 to 99.9% or K value: 000 to 9.99 m⁻¹
- Battery operated - built in, rechargeable
- Automatic Zero adjustment and calibration before use
- Automatic adjustment for sooting
- Suitable for diesel engines
- Auto-sleep feature
- Weekly calibration check
- Wi-Fi connected

YOUR GAS EMISSION SOLUTIONS. ANALYSIS TOOLS IMPROVING HOW GAS EFFICIENCY OF A VEHICLE IS MEASURED



AutoGas and AutoSmoke on custom built trolley. *Laptop not included.



AutoGas Five Gas Analyser And AutoSmoke

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AutoGas® Five Portable Gas Analyser

Feature

- Suitable for Petrol, LPG and CNG engines
- Capable of measuring CO, HC, CO₂, O₂ and NO_x
- Uses AutoTest's Printer Paper Pack
- A comprehensive vehicle emissions testing solution
- Complies with the OIML R99 (ISO 3930) Class 0 specification
- Built-in wireless connection between the AutoGas® and the AutoSmoke®

Standard Accessories

- Sampling probe assembly for gas intake
- Battery cable assembly
- Wireless OBD interface
- Oil temperature probe

Optional Accessories

- Accelerometer sensor pick-up
- Inductive pick-up and cable assembly
- Gas test software for PC interface
- RS232 to USB Adaptor
- Optional trolley for easy use and storage

Five Gas Analyser Technical Specifications

Measurement Parameters	Range	Resolution	Accuracy
CO (Carbon Monoxide)	0 – 15.5%	0.01%	3%
CO ₂ (Carbon Dioxide)	0 – 21.0%	0.10%	4%
HC (Hydro Carbon)	0 – 20000 PPM	1 PPM	5%
O ₂ (Oxygen)	0 – 25%	0.01%	3%
NO _x (optional)	0 – 5000 PPM	1 PPM	
Lambda (λ)	0.200 – 2.000	0.001	
AFR	0 – 30%	0.01%	
Oil Temperature	0 – 120°C	1°C	
Engine RPM	600 – 3500 RPM	10 RPM	5%
Measuring Gas Intake	3 litres/minute		
Leak Test	Electronic		
Condensate discharge	Automatic		
Response time (for sample probe of three metre length)	<15 sec		
Warm-up time at 25°C and above	<3 minutes		
Warm up time at 0°C	<10 minutes		
Zeroing and RPM calibration	Automatic		

Electrical Specification

AC Power supply	220V to 265V AC, single phase, 50/60 Hz
DC Power supply	11V to 32V DC battery
Power consumption	25 Watt

General Specification

Operating temperature	+5°C to +45°C
Storage temperature	-20°C to +70°C
Overall machine dimensions, unpacked (WxDxH)	310x400x210mm