

AutoGas Four Gas Analyser

GAS EFFICIENCY OF A VEHICLE IS MEASURED

The Four Portable Gas Analyser measure the contents of the exhaust gas for compliance or tuning purposes. AutoGas Four Gas Analyser can be used as a stand-alone unit or integrated into a Vehicle Test Lane.

- Capability to measure CO, HC, CO₂, and O₂ contents of petrol, CNG, and LPG vehicle exhausts
- RPM measurement facility using vehicle battery, inductive pick-up, or optional accelerometer
- Compatible with Windows-based operation
- Complies with the OIML R99 (ISO 3930) Class 0
- Portable, light-weight design.

Standard Accessories

- Sampling probe assembly for gas intake
- Battery cable assembly
- Oil temperature probe.
- Inductive Pick-up

Optional Accessories

- Accelerometer sensor pick-up
- Gas test software for Windows.
- NO_x sensor for measuring fifth gas.

Calibration:

- 12 month intervals.

Technology:

- Measurement of CO, CO₂, O₂, and HC
- Operates on 220V AC inputs or 12V- 30V DC
- Complies with OIML R99 (ISO 3930) Class 0.



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Standard features:

- Suitable for use on Petrol, LPG, CNG and diesel engines
- Independent 7 Segment LED display windows for CO, CO₂, HC and O₂
- Easy to follow test procedure
- Measures RPM through vehicle battery, spark lead or (optional accelerometer)
- Petrol/CNG/LPG selection for HC gas measurement
- Automatic condensation discharge
- RS232, Bluetooth, Wi-Fi interface
- Integrated thermal printer for printing
- Engine oil temperature measurement
- Automatic zero calibration
- Display of PEF/RPM/Lambda/AFR values
- Air leak check facility
- Stores up to 100 tests.

Features for Windows based operation:

- Photograph of vehicle number plate with unique job ID in colour printout.

Optional Features:

- RPM measurement using accelerometer sensor
- Windows software for running and storing tests on PC.
- NO_x sensor for measuring fifth gas.

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
Machine weight, unpacked	9kg