

AUTOTEST

Products Pty Ltd®



Four/Five Gas Analyser

Model: Auto Gas

The Four/Five Portable Gas Analyser can be used as a stand-alone unit or integrated into a Vehicle Test Lane.

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

Standard Accessories

- Sampling probe assembly for gas intake
- Battery cable assembly
- 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
- NO_x sensor for measuring fifth gas
- Diesel filter for diesel engine testing



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Calibration:

- 12 month intervals.

Technology:

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

Standard features:

- Suitable for use on Petrol, LPG and CNG engines
- Independent 7 Segment LED display windows for CO, CO₂, HC and O₂
- Easy to follow test procedure
- Suitable for roadside testing
- Measures RPM through vehicle battery or using optional accelerometer and inductive pick-up accessories
- Petrol/CNG/LPG selection for HC gas measurement
- Automatic condensation discharge through built-in heater
- RS232 serial, Bluetooth, Zigbee interface for PC communication
- Integrated thermal printer for printing test reports
- Engine oil temperature measurement
- Automatic zero calibration
- Display of PEF/RPM/Lambda/AFR values
- Air leak check facility
- HC residue check before each test
- Vacuum check for blocked input probe
- Stores up to 100 tests.

Features for PC based operation:

- PC software allows for the photograph of vehicle number plate with unique job ID in colour printout.

Optional Features:

- RPM measurement using accelerometer sensor
- RPM measurement using inductive pick-up sensor
- NO_x sensor for measuring fifth gas
- Gas test software for running and storing tests on PC.

Technical Specifications

Measurement Parameters	Range	Resolution
CO (Carbon Monoxide)	0 – 15.5%	0.01%
CO ₂ (Carbon Dioxide)	0 – 21.0%	0.10%
HC (Hydro Carbon)	0 – 20000 PPM	1 PPM
O ₂ (Oxygen)	0 – 25%	0.01%
NOx (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
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	100V to 265V AC, single phase, 50/60 Hz
DC Power supply	11V to 16V 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



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