

## AutoGas Four Gas Analyser

GAS EMISSIONS 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, CO<sub>2</sub>, and O<sub>2</sub> 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
- NO<sub>x</sub> Sensor
- Gas test software for Windows.

### Calibration:

- 12 month intervals.

### Technology:

- Measurement of CO, CO<sub>2</sub>, O<sub>2</sub>, 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, CO<sub>2</sub>, HC, and O<sub>2</sub>
- 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<sub>x</sub> sensor for measuring fifth gas.

## Technical Specification:

Measurement Parameters	Range	Resolution	Accuracy	
			Relative	Absolute
CO ( Carbon Monoxide)	0 – 15.5%	0.01%	±3%	±0.03% Vol
CO <sub>2</sub> ( Carbon Monoxide)	0 – 25% Vol	0.1%	±4%	±0.04% Vol
HC (Hydro Carbon)	0 – 20000 PPM	1 PPM	±5%	±10% Vol
O <sub>2</sub> (Oxygen)	0 – 25% Vol	0.01%	±3%	±0.1% Vol
NO <sub>x</sub> ( Optional)	0 – 5000 PPM	1 PPM	±4%	±25 ppm Vol
Lambda	0.2 – 2.0	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			
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)	310 x 400 x 210mm
Machine weight, unpacked	9kg

AutoTest Products Pty Ltd  
69 Parsons Street, Kensington, VIC 3031 Australia  
tel +613 8840 3000 sales@autotest.net.au

[www.autotest.net.au](http://www.autotest.net.au)

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