

AutoGas Five Gas Analyser

GAS EFFICIENCY OF A VEHICLE IS MEASURED

The Five Portable Gas Analyser measure the contents of the exhaust gas for compliance or tuning purposes. AutoGas Five 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 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.

Calibration:

- 12 month intervals.

Technology:

- Measurement of CO, CO₂, O₂, HC and NO_x
- 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, O₂ and NO_x
- 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.

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% |
| NOx (optional) | 0 – 5000 PPM | 1 PPM | |
| Lambda () | 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 |