

Glossary

In this report the expressions and abbreviations listed have the meanings given below: in other contexts they may have different meanings.

Calibration	Adjusting the EGA against a standard gas mixture of known composition according to a procedure specified by the VI .
Catalytic converter	A device fitted to the exhaust system of vehicles to reduce emissions harmful to the environment.
CO	Carbon monoxide.
CO₂	Carbon dioxide.
Consumables	EGA parts requiring regular replacement (eg filters, hoses) not necessarily as part of the calibration procedure.
DOT	Department of Transport.
EGA	Exhaust gas analyser.
Filters	Glass fibre filters fitted externally to the EGA to remove water and particulate matter from the exhaust gas sample.
Gas bench	Optical infra-red gas analysis unit; the EGA component that measures the respective concentrations of carbon monoxide and hydrocarbons in the exhaust gas sample.
GEA	Garage Equipment Association.
GEMCO	Garage Equipment Maintenance Co Ltd.
HC	Hydrocarbons.
Hoses	Flexible gas connections within the EGA and between the EGA and the vehicle exhaust pipe (see also Probe).
Lambda	A measurement corresponding to the air:fuel ratio in the engine which influences the carbon monoxide and hydrocarbon content of the exhaust gases. Lambda measures the excess air so that for chemically complete combustion (the 'stoichiometric mixture') lambda = 1. For fuel-rich mixtures lambda is <1 and for lean mixtures >1.
NACCB	National Accreditation Council for Certification Bodies. A sister organization to NAMAS that accredits certification bodies as opposed to laboratories.
NAMAS	National Measurement Accreditation Service. A service of the National Physical Laboratory, an executive agency of the Department of Trade and Industry. Responsible for the accreditation of laboratories for the pattern approval of EGAs and for the assessment of engineers seeking NAMAS approval as EGA calibrators.

O₂	Oxygen.
OIML	Organisation Internationale de Métrologie Légale. A Paris-based international organization that sets standard specifications for measuring and testing instruments.
Probe	Tube inserted into the exhaust tail pipe of a vehicle to take a sample of the exhaust gases.
RMIF	Retail Motor Industry Federation Limited.
Service	Regular maintenance or periodic overhaul or repair of an EGA .
SIRA	SIRA Test & Certification Limited.
SMMT	Society of Motor Manufacturers and Traders.
Smoke meter	An instrument used in emission tests on diesel-engined vehicles to measure the opacity of the exhaust fumes.
Standard gas mix	A stable gas mixture of known concentration used for periodic calibration of the EGA .
TRL	Transport Research Laboratory, an executive agency of the DOT .
VI	Vehicle Inspectorate, an executive agency of the DOT , responsible for management of the MOT scheme of statutory vehicle tests.