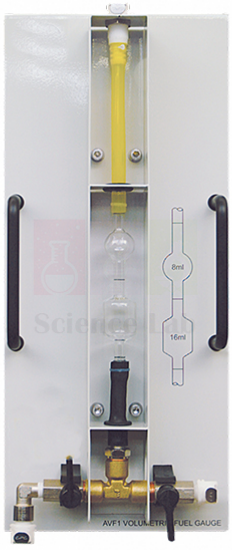
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Manual Volumetric Fuel Gauge

Product Code :

SLE/EE/01



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Description :

The Manual Volumetric Fuel Gauge measures how much fuel a petrol or diesel engine uses during bench tests. A valve shuts off the tank so that the engine draws only from a precision-calibrated two-bulb pipette, and students time how long it takes to use a set volume. The gauge mounts on the instrumentation frame, with self-sealing couplings between tank and engine.

Volumetric fuel gauge specifications

Parameter	Detail
Measuring element	Precision-calibrated two-bulb pipette
Flow control	Control valves, including a valve that cuts off the tank supply so the engine draws fuel from the pipette only
Filling	Fuel enters the pipette from the fuel tank
Installation	Mounts on the instrumentation frame of the engine test set, between the fuel tank and the engine under test
Couplings	Self-sealing, for quick connection and disconnection with minimum loss or spillage of fuel
Suitable fuels	Petrol or diesel
Measurement method	Time taken to consume a set volume of fuel, from which the fuel flow rate is calculated
Product code	SLE/EE/01
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Fuel consumption practicals with the pipette gauge

Taking one reading. With the engine steady, close the tank supply valve so that the engine draws from the pipette alone. Start a digital stopwatch as the meniscus passes the upper mark and stop it at the lower mark. Reopen the valve so the pipette refills before the next reading.

Load test on a petrol engine. Fit the gauge to the test set of the 4 stroke petrol engine and take three timings at each load step. Average them, convert to mass flow and plot specific fuel consumption and brake thermal efficiency against brake power.

Diesel against petrol. Move the gauge to the 4 stroke diesel engine through its self-sealing couplings, draining the pipette when the fuel changes. Repeat the load steps and

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