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Email : sales@laboratoryinstrumentindia.com

Product Name : Single-Cylinder Combustion Engir

Product Code : LBNY-0005-112000



Description :

The system comes complete withinstrumentation, including rpm measurement, torque (from which power can becalculated), airflow and exhaust temperature. This multi-purpose test rig is designed to accept a series of gasolineand diesel engines available separately. The utilises an eddy-current dynamometer to provide avariable load on the engine, enabling the characteristic power and torquecurves to be reproduced in the laboratory dependent upon which sensor optionsare ordered. This provides real-time monitoring of the varioussensors, with a wide range of data logging and graphical display options. Both the dynamometer and throttle can be controlled electronically, which makesinstallation into a closed test cell straightforward, and enables remoteoperation. Other optional sensors can bepurchased to further enhance the teaching capabilities of the includingcylinder pressure sensors and fuel consumption.

The unit is designed to be linked to the users computeror touch screen, linked to supplied software with sophisticated control anddata acquisition.

The whole system is designed to be linked to a computerusing the software provided.

Technical Specification :

Technical Specifications:

Petrol Engine Displacement:163cm Poweroutput: 4.8HP (3.5kW) Diesel engine Displacement:243cm Poweroutput: 4.8HP (3.5kW) Dynamometer Data Cooling:Air-cooled

Features:

Determination of specific fuel consumption (option) Definition and use of an electronic cylinder pressure indication system (option) Determination of volumetric efficiency and lambda (fuel-air ratio) Plotting of torque and power curves Determination of the frictional power of the engine Cylinderpressure measurements Exhaust calorimetry P-Vdiagram (optional sensor required).

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