



Email : sales@laboratoryinstrumentindia.com

Product Name :
Hybrid System

Product Code :
LBNY-0005-18400022



Description :

The simulator consists of a panel operating by PC with mimic diagram for the clear positioning of the components. The various zones of the mimic diagram are presented with different colours and shades to emphasize the peculiar characteristics of the system. This simulator is an educational system designed in vertical frame, bench-top, so the students have the capability to watch the theoretical and practical study of the automotive systems. The mimic diagram is fitted with light indicators so as to enable the observation of the control. It includes colour mimic diagram that clearly shows the structure of the system and allows the location of components on it.

The operational conditions are entered by the students. The display of the information available at the PC monitor allows the continuous monitoring of the educational system. The insertion of faults is carried out by the PC.

The subsystems that form the hybrid solution and that are analyzed by means of the simulator and shown on the synoptical panel are the following: Gasoline Unit, including:

Gasoline Engine, with a bank of 4 cylinders and multipoint sequential injection

i-VTEC: Intelligent Variable-valve Timing and Electronic-lift Control

Engine ECU (electronic control unit for managing the thermal motor)

i-DSI: Intelligent Double Sequential Ignition.

Technical Specification :

Electric Unit, composed of Hybrid System

Electric Power Unit, with inverter for power supplying the electric motor and AC/DC converter for the current supplied by the motor operating as a generator

DC Unit, it regulates the quantity of direct current at 12 V supplied by the DC-DC converter
Synchronous Three-phase Electric Motor /Generator with permanent magnets
Eco Assist System Intelligent Power Unit, that includes:
Cooling Fan, for cooling the battery module
Motor Control Module, for the synchronization of the electric motor with the petrol engine
A/C Driver, for managing the Dual-Scroll Hybrid A/C Compressor
Battery Module, composed of Ni-MH cells
Battery ECU, electronic control unit for managing and controlling the charging state (SOC) of the Battery Module.



Laboratory Instrument India