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Product Name :
T Battery Simulator

Product Code :
LBNY-0005-120000187



www.laboratoryinstrumentindia.com

Description :

The teaching unit is suitable for use both in the laboratory and in a conventional combustion engine vehicle. Such a vehicle will be supplemented by the main components of a hybrid vehicle, which can then be examined in detail. Pilot line with switching relays with integrated LEDs to illustrate the switching function and system verification. Measurable voltage at the inverter approximately 210V. Connecting the terminals 30, 31 and 15. Disconnect with original service plug. Signals at the symbolic electric motor measurable, also filtered in sinusoidal shape, by the smoothing effect of the engine. Signals at the inverter input and output measure, approximately 210V including charging and discharging curves. Inverter generates 3-phase PWM signals, about 210V. Signals and messages of the CAN-Bus communication measurable.

Learning Objectives:

Acquire knowledge about the interaction of the electronic components between the high-voltage battery, inverter and electric motor.
Criteria for the use of test devices
Deepen your expertise to optimally adjust oscilloscopes and evaluate the presentations
Represent pulse width modulated signals and sinusoidal wave forms in detail with the oscilloscope, also between individual phases
Recognize the dangers of high-voltage power components, explain accident prevention regulations
Security rules: disconnect, secure against reconnection, ensure that there is no voltage, log the steps.

Technical Specification :

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Laboratory Instrument India