AUTOTRONICS

SERIES-PARALLEL HYBRID POWER VEHICLE ENERGY CONTROL STRATEGY TRAINING PANEL

AUTOTRONICS - DEMONSTRATORS

DL DM95

LEARNING EXPERIENCE

This demonstration panel is designed based on a Toyota Prius series-parallel hybrid power system with a working management control to dynamically demonstrate several working conditions such as starting, driving at low speed, normal speed, full speed, reduced speed and stopping.

GENERAL CHARACTERISTICS

- Dim. mm (HxLxW) : 1700x1600x700
- Weight approx. 200 kg
- Input power supply: A.C. 220V ± 10% 50Hz
- Operating voltage: 12V DC

MAIN CHARACTERISTICS

The didactic system fully demonstrates a series-parallel hybrid power vehicle with energy control strategy and it can dynamically simulate the energy flow direction.

It can also display the motor, engine, generator running status during starting, driving at low speed, normal speed, full speed and reduced speed and stopping. It is possible to show actively the characteristics and advantages of a series-parallel hybrid power system.

Main components:

- Ignition switch
- Different vehicle speed switches
- Accelerator pedal
- Switch for changing gears
- Switch for braking
- Digital tachometer
- Ammeter
- Light emitting diodes (For showing the energy flow direction)
- Movable framework

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OTHER OPTIONS

DL DM95A - Series Hybrid Power Vehicle Energy Control Strategy Training Panel

The equipment fully demonstrates series hybrid power vehicle energy control strategy and can dynamically simulate energy flow direction and motor, engine, generator running status during starting, driving at low speed, normal speed, full speed and reduced speed and stopping.

The device applies to theoretical teaching and maintenance training of series hybrid power system for secondary vocational skill schools.

DL DM95B - Parallel Hybrid Power Vehicle Energy Control Strategy Training Panel

The equipment fully demonstrates parallel hybrid power vehicle energy control strategy and can dynamically simulate energy flow direction and motor, engine, generator running status during starting, driving at low speed, normal speed, full speed and reduced speed and stopping.

The device applies to theoretical teaching and maintenance training of parallel hybrid power system for secondary vocational skill schools

OTHER CHARACTERISTICS

a) The trainer is made of advanced aluminum-plastic plate with characteristics of not less than 4mm thick. The plate is corrosion resistant, impact resistant, pollution resistant, fireproof, and moisture proof. The panel surface is processed by special craft and spraying primer. The circuit diagrams are painted with never fade colour and the boards are coated with varnish. The trainees can learn and analyse the working principle of the control system by looking and analysing the diagram and the real-life components.

b) Instruction board panel is installed with ignition switch, operating mode switch, throttle pedal, gear shift switch, brake switch, digital tachometer and ammeter. Supplied with light emitting diode for dynamic indication of system flow direction. Moreover, working state of engine, motor and generator are simulated.

c) The training base frame is made of steel and the surface is paint-coated. The training base frame is made of moulded aluminium steel and the chassis part is welded to the steel structure. The surface is processed with spraying. Pivoting wheels are mounted. A small table top shelf is fixed on the base frame to place material and testing devices

d) The didactic panel does not use accumulators or battery and it does not require any charging. It can be connected to a 220V AC voltage which changes to a 12V DC voltage through the internal circuit. The 12V DC voltage protects the training panel against short circuit.