Embuilt Technologies
Factory: H-54 Bindayaka Industrial Area, Jaipur, Rajasthan, INDIA 302021
+91-7524853539 · embuilt.jaipur@gmail.com
www.embuilt.com

HIL ECU Tester

Real-time ECU simulation, diagnostics and validation for Automotive, EV and HVAC



- **2 CAN bus channels** with live CAN-RX frame monitor and CAN-TX message simulator.
- **2 PWM outputs** and **2 temperature-sensor simulation channels** with an editable temperature-vs-resistance lookup table.
- **6 relay outputs** with LED status indicators, plus toggle switches and a rotary potentiometer for real-time input simulation.
- **12V / 24V DC** selectable and adjustable test supply.
- **7-inch colour touch display** for live parameters, CAN frames and relay status.
- Heavy-duty multi-pin ECU connector with shielded wiring loom, in a rugged portable aluminium case.

Technical Specifications

Product Name	HIL (Hardware-in-the-Loop) ECU Tester
Application	Real-Time Automotive / EV & HVAC ECU Simulation, Diagnostics & Validation
Communication & PWM Channels	2 Independent CAN Bus Channels (Real-Time CAN-TX & CAN-RX Frame Monitoring) & 2 Independent PWM Output Channels
Operating / Testing Voltage	Selectable & Adjustable 12V / 24V DC Supply
Temperature Simulation	2 Independent Temperature Sensor Simulation Channels with Programmable Temp-vs-Resistance Lookup Table
Relay & Actuator Outputs	6-Channel Dedicated Relay Output Bank (with LED Status Indicators)
Digital & Toggle Controls	On-Board Physical Toggle Switches & Rotary Potentiometer for Real-Time Input Simulation
ECU Interface Harness	Heavy-Duty Multi-Pin Automotive ECU Connector with Shielded Wiring Loom
Display Interface	7-Inch High-Contrast Color TFT Touch Display (Live Parameter, CAN Frame & Lookup Table Editor)
User Input & Controls	Touchscreen Soft-Keys (F1–F6, +/-, CAN, Save, Navigation) & On-Board Hardware Switches
Auxiliary Power Supply	210V – 250V AC, 50/60 Hz
Box Type & Dimensions	Rugged Portable Aluminum Carrying Case — 250 × 250 × 140 mm