Embuilt Technologies
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4-Channel Servo Tester

Automated testing of automotive and HVAC servo actuators



The **4-Channel Automated Servo Tester** drives and monitors up to four servo motors or actuators at the same time. It is used to test automotive and HVAC servo actuators for position, feedback and response, on the bench or in the field. It is supplied in a rugged portable aluminium carrying case.

Key highlights

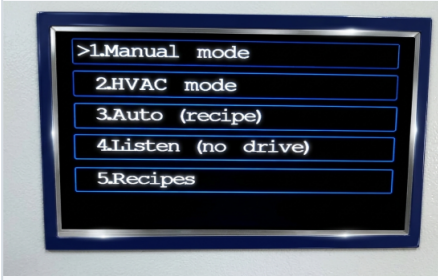
- **Multi-mode:** Manual, HVAC, Auto-Recipe and passive Listen (no drive) diagnostics in one unit.
- **Dual voltage:** toggle between 12V and 24V DC with LED indicators and front-panel output terminals (24V, 12V, GND); adjustable 1V to 24V DC.
- **Feedback monitoring:** 5-pin pluggable terminal blocks with feedback (FB) and reference pins (5V, Fd1, Rd1) on every channel.
- **Angle measurement:** converts potentiometer or feedback voltage (0V to 5V) into real-time angle in degrees.
- **Stable 5V reference** rail for sensor excitation across all 4 channels.
- **Home position calibration:** one-touch or recipe-based return to the mechanical zero before a test cycle.
- **Pendrive data logging:** test logs, angle curves, error reports and recipe data saved as CSV/text.
- **Field-ready:** rugged aluminium carrying case with a wiring reference diagram on the front panel.

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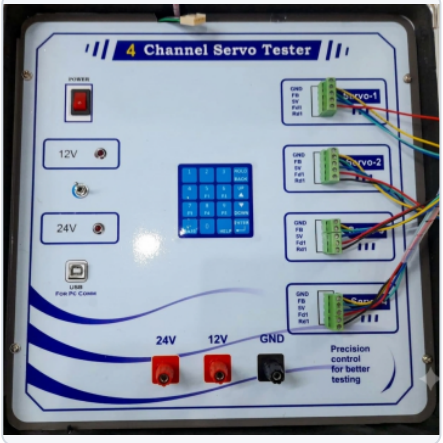
Photos



Portable test unit



7" colour TFT menu



Front control and I/O panel

Operating modes

Manual Mode	Direct position and step control of each servo.
HVAC Mode	Dedicated testing sequence for HVAC actuators.
Auto Mode (Recipe)	Automated execution with programmable time and positions.
Listen Mode (No Drive)	Passive feedback and signal monitoring without driving the servo.
Recipes	Storage of custom, user-defined test profiles.

At a glance

Channels	4 independent servo channels (Servo-1 to Servo-4)
Supply for servos	12V / 24V DC selectable, adjustable 1V to 24V DC
Feedback	Voltage-based angle measurement, 0V to 5V shown in degrees
Display and keys	7-inch colour TFT, 4×4 matrix keypad
Data logging	USB pendrive (CSV / text), USB Type-B for PC

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Technical specifications

Product Name	4-Channel Automated Servo Tester
No. of Channels	4 Independent Servo Channels (Servo-1 to Servo-4)
Servo Operating Voltage	Selectable 12V / 24V DC & Variable Voltage Range (1V to 24V DC) with dedicated LED indicators & banana sockets
Reference Voltage	On-board stable regulated 5V DC reference output for sensor excitation and precise feedback
Angle Measurement	Voltage-based angle measurement and real-time feedback decoding (0V to 5V to degrees)
Home Position	Programmable / One-touch home position calibration and mechanical zero reset
Control Architecture	High-Precision Digital Control (Dedicated Servo Control Chip)
Feedback & Signal Pins	5-Pin Pluggable Terminal Block per channel (GND, FB, 5V, Fd1, Rd1)
Operating Modes	**Manual Mode:** Direct position & step control **HVAC Mode:** Dedicated testing sequence for HVAC actuators **Auto Mode (Recipe):** Automated execution with programmable time & positions **Listen Mode (No Drive):** Passive feedback & signal monitoring without driving the servo **Recipes:** Custom user-defined test profiles storage
Display Interface	7-Inch High-Contrast Color TFT Display
User Input	Tactile 4×4 Matrix Keypad (Numeric keys, Function keys F1-F5, HOLD/BACK, SAVE, ENTER)
Data Logging	Direct USB Pendrive Data Logging (CSV/Text export for test logs and curves) & USB Type-B PC Communication
Auxiliary Power Supply	210V – 250V AC, 50/60 Hz
Enclosure & Dimensions	Rugged Portable Aluminum Carrying Case — 345 × 345 × 195 mm

Specifications may change without notice. For a quotation or a demo, contact us: +91-7524853539 · embuilt.jaipur@gmail.com · https://embuilt.com/contact/