

TEST SYSTEMS



ATS Instrument Panel (IP) Testing



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Description

The ATS Automotive IP Test System is a Standard Product solution intended for full validation of Option Content, Assembly and Full Functional Testing of any standard Automotive Instrument Panel / Cockpit and is also applicable for Console or Door Module testing.

System utilizes a Windows based PC running ATS Test Executive. All test specific software is scripted. Allows Test Engineers to easily change, add, delete or re-configure tests via re-configure tests via script [password protected user levels].

Incorporated in every one of our test systems are ATS' Non Destructive Electrical Test Connectors. These provide high integrity electrical connections in demanding repetitive manufacturing environments.

Components

- Clusters, Steering column module [SCCM], Air Bag control modules
- HVAC, Blower Motors, actuators, sun sensors
- Keyless Ignition Node [KIN], Keyfob & RKE programming
- Radio, Amplifier, Speakers, Hands Free Module [HFM]
- Shifter PRND, traction control button, window up/down/lock buttons, Bezel and trim colors

Tests

- Bus messages to confirm module part number, software\hardware version, initiate self-test, reset internal faults, set\enable programmable features, read data digital/analog values
- Source or sink 12V\6V\ground through low and high resistance, performing voltage and current measurements, generate PWM signals etc to test non bus diagnostic components

Features

- Custom load & measurement boards [ATS MUX card]. Scalable from 16 to 256 channels in one rack, multiple racks to achieve 512 or more IO
- Multiple bus protocols and/or baud rates simultaneous
- Execute tests sequentially and/or in parallel

Our Expertise Includes

- **Interfacing to Plant Floor Host Systems**
- **Option Decoding**
- **Traceability [Air Bags, safety components, etc]**
- **Full Functional Testing, every circuit is verified**
- **Quiescent current analysis**
- **Continuity Testing, every wire-harness to electrical module connection is verified**
- **Communicating to automotive bus diagnostics (CAN, LIN, K-Line, Class 2, SCP, etc...)**
- **Custom electrical test connectors. Pigtail or Table Mount styles. Custom continual flex cable harness utilizing quick change**



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