

Orbis Systems India

Power Electronics Project References

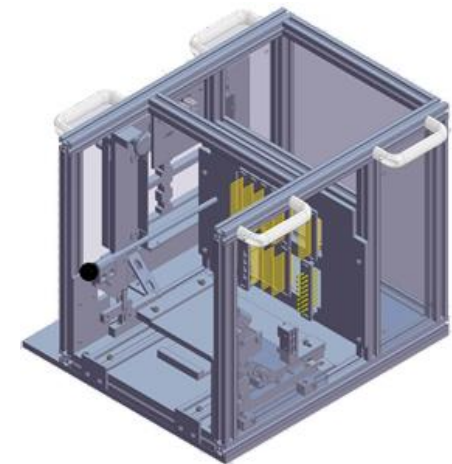


WE CALL IT KNOWLEDGE

- ✓ More than 10 years of experience in automated test solutions
 - More than 500 assurance & functional device testers
 - More than 500 flashing test systems
 - More than 500 fixtures & adaptors
 - More than 100 thousand km of cable assemblies



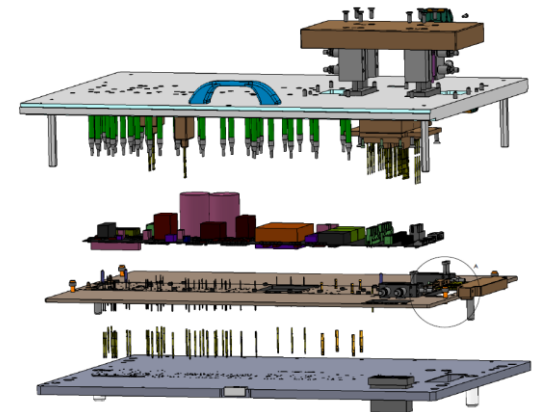
- ✓ Fixture to test functionality and HV compliance
- ✓ Facilitates multiple interfaces viz. (BO/BI Ethernet, RS485 Connectivity, Current terminals)
- ✓ Easy to connect & disconnect
- ✓ Fixture Designed to perfectly mate with the tester housing
- ✓ Adjustable DUT bed for holding different DUT types
- ✓ Interchangeable and adjustable Probe blocks for individual Connectors
- ✓ Benefits
 - Reduced total cost of ownership
 - Improved safety and reliability
 - Short product change over time



- ✓ Fixture to test functionality of Relays
- ✓ Facilitates adjustment of relay contact terminals for required functionality
- ✓ Support for Multiple Voltage variants
- ✓ Customized Adaptor Box support different types of relays
- ✓ LED indications for easy verification of contacts

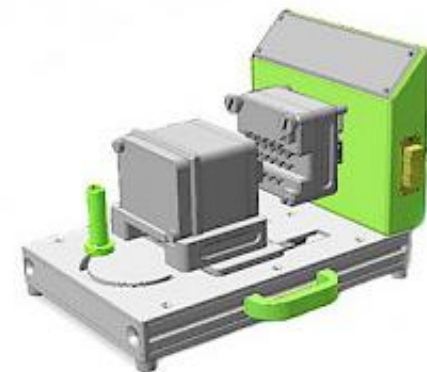


- ✓ Ingun - signal and hi-current test probes are used
- ✓ Ingun receptacles, most of them pre-wired for faster service time
- ✓ Multi-sided testing capability to test card edge and straight PCB connectors with pneumatic connections

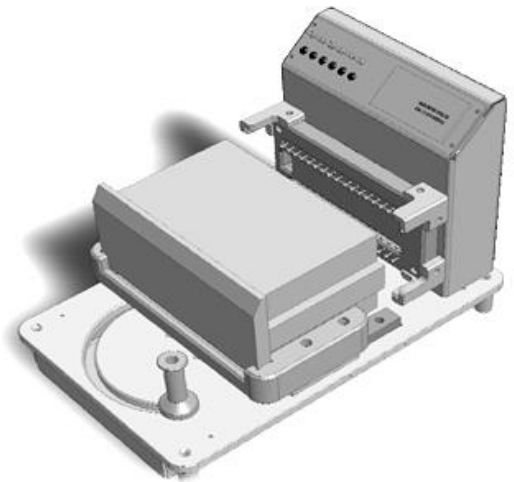


Functional Test Fixture (Detachable Type) orbis/systems

- ✓ Common fixture and changeable adaptor for multiple DUTs
- ✓ Test contact Make/Break functions at desired operating voltage range
- ✓ Easy to set operating voltage(s)
- ✓ Part / DUT presence sensor
- ✓ DUT engagement sensor with safety interlock switch
- ✓ Ergonomic design and high safety
- ✓ Easy to service
- ✓ **Benefits**
 - Reduced total cost of ownership
 - Improved safety and reliability
 - Short product change over time



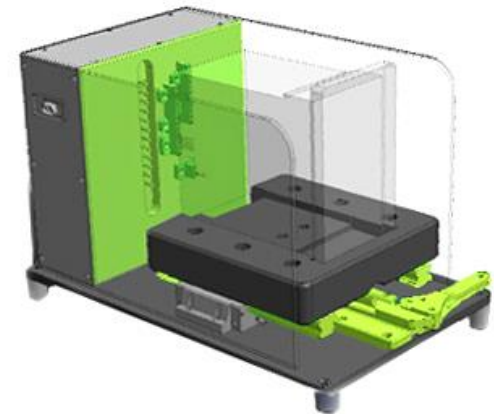
- ✓ Fixture to test the functionality of Numerical Relays
- ✓ In-built 24VDC/50W power supply to test BI/BO
- ✓ Digital LCD Ammeter (200mA) to measure the relay operating current
- ✓ LED indication to test the internal relay operations
- ✓ USB/RS 485 Interface port for Communication functionality of the relay module
- ✓ Built-in safety interlock feature
- ✓ Sliding movement of the DUT BED –
 - Manual Operation or
 - Automatic Operation: Electromagnetic / Pneumatic (Optional)



- ✓ Cost effective solution for Numerical relay testing
- ✓ Less number of connector points needed due to fixture design
- ✓ Electrical wiring connections compatible for multiple testers
- ✓ Easy handling and light design
- ✓ Can be installed at anywhere
- ✓ Miniature limit switches for sensing DUT presence

✓ Benefits

- Reduced total cost of ownership
- Improved safety and reliability
- Short product change over time



- ✓ Aux/Trip relay Testing Fixture for HV testing
- ✓ Ergonomic design with fixed viewing angle of 45 degrees
 - Adjustable viewing angle as an option
- ✓ Rear side banana sockets for accessing the relay terminals
- ✓ Fixture Contacts designed to test up to 5KV



- ✓ AFTS ATE designed for testing the Relay Modules (Programmable)
- ✓ HW: Programmable Digital Multimeter, Programmable Power Supply, Programmable Oscilloscope, Relay Switch Matrix Unit
- ✓ Industrial PC: PCI-Digital Input / Output Card
- ✓ Bar code scanner for Relay ID number identification
- ✓ Software: User selectable test for each relay
- ✓ Total of 13 tests each having different sequence