

High Pin Count, Large Backplane Test Systems

For high speed In-Circuit / Level IV testing of very large, very high pin count loaded backplane / backpanel / midplane assemblies



Model 402



Model 401



Uses Industry Standard High Density Clamshell Fixtures

	Model 401	Model 402
Maximum test points	20,480	40,960 *
Maximum board size	610mm x 813mm	762mm x 1524mm
Fixturing	Clamshell	Clamshell
Software	MS Windows	MS Windows
Electronics	6 wire MDA / ICT	6 wire MDA / ICT
Test Speed, 20k points	Less than 2 minutes	Less than 2 minutes

* The 402 is also available in a 61,440 point, 500 volt version

Fault Coverage

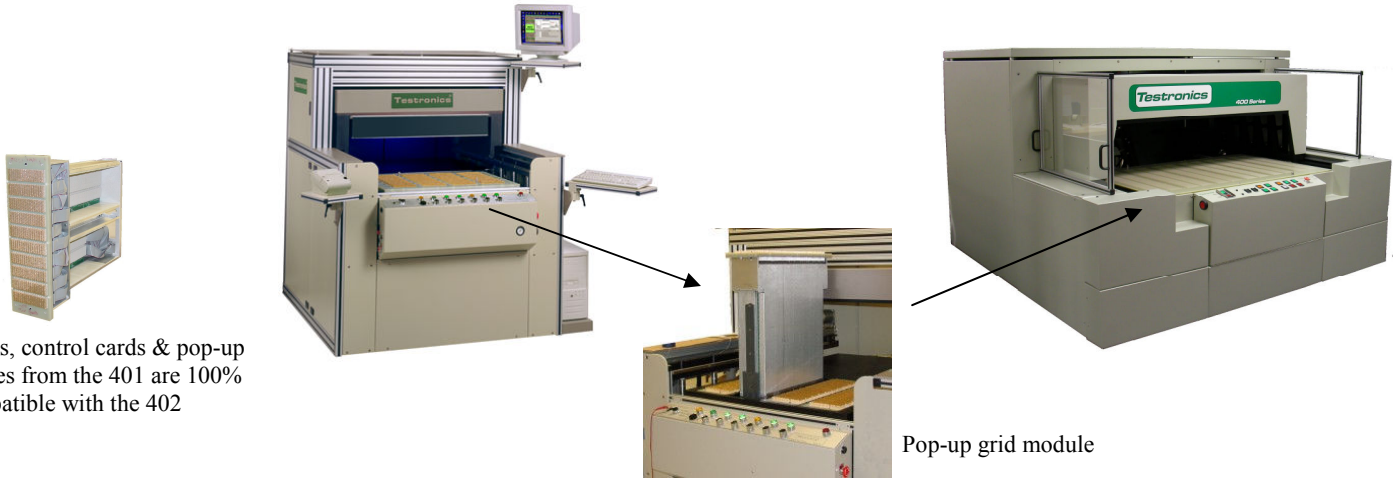
- Isolation testing exceeding Bellcore standards
- SMT opens
- Missing & Bent Pins
- Connector Orientation
- Capacitors
- Inductors
- Resistors
- Diodes, LED's, Zeners
- Transistors
- Complex Impedances
- Programmable Sources
- Agilent Test Jet

Features

- High Pin Count Capability – Up to 20,480 test points for the model 401, up to 40,960 test points for the model 402, (61,440 points available)
- Large Backplane Size Capability – Up to 610mm x 813mm for the model 401, up to 762mm x 1524mm for the model 402
- Level IV Testing – 6-wire Guarding, Component Level Testing, Vectorless IC Verification
- High Throughput Clamshell Double Access Fixturing
- Quick Product Change – Simple and easy to change to a different fixture
- High Speed – 20,000 points tested in less than 2 minutes
- Industry Standard PC Controlled with Microsoft Windows OS, XP Networking & Testronics WinTOS Software
- IEEE and Power-Up Options Available

Upgrade your existing model 401 to the larger model 402

- Switch cards, measurement cards & grid modules are interchangeable
- Model 401 fixtures can be used on the model 402
- Software & test programs are compatible



Switch cards, control cards & pop-up grid modules from the 401 are 100% compatible with the 402

Pop-up grid module

401/402 Specifications

<p>DC Voltage & Current</p> <p>Voltage Source</p> <p>Voltage Meter</p> <p>Current Source</p> <p>Current Meter</p> <p>Guard Voltage Meter</p> <p>Guard Current Source</p> <p>Guard Current Meter</p>	<p>Programmable 16-bit Range</p> <p>25mV–10.0V</p> <p>2.5mV–10.0V</p> <p>250nA–10mA</p> <p>250nA–10mA</p> <p>2.5mV–10.0V</p> <p>250nA–100mA</p> <p>250nA–100mA</p>	<p>Accuracy</p> <p>+/-0.5%F.S. +/-0.5% Value</p> <p>+/-0.5%F.S. +/-0.5% Value</p> <p>+/-0.5%F.S. +/-0.5% Value</p> <p>+/-0.5%F.S. +/-0.5% Value</p> <p>+/-0.5%F.S. +/-0.5% Value</p> <p>+/-0.5%F.S. +/-0.5% Value</p> <p>+/-0.5%F.S. +/-0.5% Value</p>	<p>AC Voltage & Current</p> <p>Voltage Source</p> <p>Voltage Meter</p> <p>Current Source</p> <p>Current Meter</p>	<p>Programmable 16-bit Range</p> <p>25mV–10.0V</p> <p>10mV–10.0V</p> <p>25uA–10mA</p> <p>25uA–10mA</p>	<p>Accuracy</p> <p>+/-0.1%F.S. +/-0.1% Value</p> <p>+/-0.5%F.S. +/-0.5% Value</p> <p>+/-0.5%F.S. +/-0.5% Value</p> <p>+/-0.5%F.S. +/-0.5% Value</p>
			<p>Component Measurement Capability</p> <p>Resistive Range</p> <p>Capacitance Range</p> <p>Inductive Range</p>	<p>Accuracy</p> <p>+/-1% F.S. +/-1% Value</p> <p>+/-2% F.S. +/-2% Value</p> <p>+/-2% F.S. +/-2% Value</p>	
<p>Power-up Card Specifications</p> <p>6-wire Power Up Relay Cards</p> <p>3-wire Power Up Relay Cards</p> <p>Measurement Matrix</p> <p>Auxiliary Matrix</p>	<p>Range</p> <p>0 – 50V 0 – 1.5A</p> <p>0 – 50V 0 – 1.5A</p> <p>6 Lines by n pins</p> <p>10 Lines by n pins</p>	<p>Option Card Specifications</p> <p>Hybrid Cards - Combination 10V switch matrix / Isolation Relay</p> <p>Instrument Matrix Card – 64 external lines x 6 input matrix</p> <p>24 Channel Relay Driver – 24 N/O programmable relay contacts, 8 digital TTL input bits, also configurable for 24 digital TTL bits</p>			