

series 2500

Specifications



Operations

- Relative humidity: 30%-80% (RH non-condensing)
- Standard configuration temperature: 60°F-90°F
- Power:
 - 208VAC/30A 3ph60Hz
 - 100-115VAC/25A 1ph50Hz-60Hz
 - 220-250VAC/15A 1ph50Hz-60Hz

Standard Instrumentation

Standard Measurement Unit

- System accuracy
 - Continuity $\pm 1\%$
 - Insulation $\pm 3\%$
- Fully programmable
 - Voltage stimulus up to 1500VDC/Series 17 switching 2000VDC/Series 41 switching
 - Current stimulus up to 2A
 - Continuity resistance 0.01 Ω – 99K Ω
 - Insulation up to 1000M Ω
- Four-wire resistance measurement from 0.01 Ω – 10 Ω
- Floating comparator
- Capacitance measurements 10pF – 5000 μ F
- Simultaneous insulation and hipot testing
- DC dielectric (hipot) currents of 0.5 mA – 2.5mA
- DC voltage measurement

Additional Instrumentation Options

- AC dielectric, 1000V, 2000V
- 1553 Transformer Test

Switching

- Series 17: 1500VDC, 2A
- Series 41: 2000VDC/VAC, 2A
- Setup Complete ensures proper switching operation during testing
- Discharge Wait circuit prevents switching from actuating with stimulus applied

Computer Environment

- Industry standard personal computer with Microsoft® Windows or:
 - Laptop
 - Industrial
 - Customer specified
 - Printer: inkjet

Standard Software

- TestLink® software includes:
 - TestEdit® – Text editor for test programs and address correspondence
 - TestExecutive® with self-programming and Write Error Program (WEP)
 - Syntax Checker (SYNCHK)
 - Diagnostics

Software Options

- TestAssistant® II - Test interface and program builder
- Communications and networking
- Automatic Program Generation (APG/WIRESORT)
- Checksum (CHKSUM)
- Language Translators

Hardware Options

- Continuity probe
- Wireless remote control terminal
- Bar code reader
- External power for relay/component energization or instrumentation support
- Customer specified connector interfaces

Available Models

- 2503 tests up to 10,000 points per enclosure
- 2505 tests up to 5,000 points per enclosure
- 2508 high density switching tests up to 20,000 points per enclosure
- 2500.HVA tests up to 15,000 points from a single switching console (2000VDC/VAC)

For more information

For the name of your representative or more information on:

- Technical specifications
- Pricing
- Services
- Other products
- Authorized sales and service agents

Please contact:
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Hardware and software configuration flexibility give the Series 2500 the power to meet your testing requirements. The Series 2500 is a modularly designed 1500 volt, 2 amp circuit analyzer. With up to 5,000 tests per minute, it quickly detects faults before they become costly problems. This versatile system tests cables, complex harnesses, panels and boxes including those with components such as found in transit cars, aircraft and satellites.

Hardware Flexibility

The Series 2500's tremendous range of options lets you configure the system to your requirements. Pick configurations from 5,000 to 50,000 test points, space saving configurations using high density switching modules, or high voltage configurations with up to 2000V stimulus. Take advantage of four-wire measurement as well as simultaneous insulation and hipot testing. Its flexibility will offer you the power you need for greater productivity.



High density switching modules mean smaller footprints for large point units.

Fault Locator

Fault Locator's automatic diagnostics pinpoint the physical location of an open or short in a product under test. It reduces the cost to troubleshoot and repair defective products.

Self-Program

TestExecutive® software can create a test program using a known good product. The operator loads a "golden" product and then selects the self-program mode. The analyzer examines the product and creates the disk resident test program.



The 2500.HVA tests up to 15,000 points from a single console at stimulus voltages of up to 2000VDC and 2000VAC.

External Energization

With external energization you can energize relays, lights, motors, solenoids, and other UUT components. An example of a use for external energization would be a relay that requires activating to test the wiring to the "normally open" contacts. All of the external energization matrices utilize a latching relay and remain activated for the duration of the test.

Tests Performed

Each system comes complete with the capability to perform:

- Circuit continuity tests for open circuits
- Insulation resistance verification for short circuits
- Dielectric breakdown (hipot) tests
- Resistor tests
- Diode tests
- Capacitor tests
- Switch and circuit breaker tests

You can program measurements in high-resolution steps from 0.01 ohm to 1000 megohms, program voltage stimuli as well from .225 volt through 2000 volts and current from 5 milliamps through 2 amp (maximum values are system type dependent).



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