

NX HipotTesters Feature Summary and Specifications



NX Hipot 64 - 128 test points



NX Hipot + 64 - 1024 test points

Dynalab TEST SYSTEMS

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614-729-6550

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Low Voltage Continuity: 1 Ω - 100 Ω (±1 Ω), 100 Ω - 500 K Ω (±1 ohm, ±1%), 500 K Ω - 2 M Ω (±5%) Shorts: 1K Ω - 2 M Ω (± 20%) Components Diodes: Checks for proper orientation Resistors: 1 Ω - 100 Ω (±1 Ω), 100 Ω - 500 K Ω (±1 ohm, ±1%), 500 K Ω - 2 M Ω (±5%) Capacitors: 10 Ω Pr for 5000Pr (±5% for 20% based on capacitor type, ±10Pf)) 4-wire mode .005 Ω - 100 Ω (± .005 Ω , ± 1%) Relay Testing Capable of active relay testing Test Voltage 14 VDC maximum (Automatically selected by the NX Tester) Test Current 5mA DC (Automatically selected by the NX Tester) Test Speed 1 seconds per 1024 test points (continuity only)) 3 seconds per 1024 test points (continuity and shorts) High Voltage High Voltage Insulation 5M Ω - 1 5 Ω (± ±10) Resistance Range 5M Ω - 1 2 Ω (± ±10) High Duration .010 - 120 seconds per connection group Ceneral Display Easy to read 4-line x 20 character display Audible Tones Variety of user programmable tones for error notification and special events Program Storage 1.3MB with no file quantity limitation Control Ports 24 control port capability (additional hardware required)		
Components Diodes: Checks for proper orientation Resistors: $12 - 100 Q(\pm 10), 100 Q - 500 K\Omega$ ($\pm 1 ohm, \pm 1\%), 500 K\Omega - 2 M\Omega$ ($\pm 5\%$) Capacitors: $10 - 100 Q(\pm 10), 100 Q - 500 K\Omega$ ($\pm 1 ohm, \pm 1\%), 500 K\Omega - 2 M\Omega$ ($\pm 5\%$) Capacitors: $100 P$ to $500 W$ ($\pm 5\%$ to 20% based on capacitor type, $\pm 10 P$) $100 Q$ ($\pm .005 \Omega$, $\pm 1\%$) Relay Testing Capable of active relay testing Capable of active relay testing Test Voltage 14 VDC maximum (Automatically selected by the NX Tester) Test Current 5mA DC (Automatically selected by the NX Tester) Test Speed 1 seconds per 1024 test points (continuity only) $100 M$ 3 seconds per 1024 test points (continuity and shorts) Test Speed 1 seconds per 1024 test points (continuity and shorts) Test Speed 1 seconds per 1024 test points (continuity and shorts) Test Speed 1 seconds per 1024 test points (continuity and shorts) Test Speed 1 seconds per 1024 test points (continuity and shorts) Test Speed 1 seconds per 1024 test points (continuity and shorts) Test Speed 1 seconds per 1024 test points (continuity and shorts) Test Speed 1 seconds per connection group Test Speed 1 seconds per gorgammable tones for error notification and special events Program Storage 1 says to read 4-line x 20 character display Audible Tones Variety of user programmable tones for error notification and special events Program Storage 1 says to read 4-line x 20 character display Test Speed 1 seconds	Low Voltage	
Resistors: 1 Ω - 100 Ω (± 1 Ω), 100 Ω - 500 Ω (± 1 ohm, ±1%), 500 Ω - 2 MΩ (±5%) Capacitors: 100pF to 500uF (± 5% to 20% based on capacitor type, ±10pF) 4-wire mode .005 Ω - 100 Ω (± .005 Ω , ± 1%) Relay Testing Capable of active relay testing Test Voltage 14 VDC maximum (Automatically selected by the NX Tester) Test Current 5mA DC (Automatically selected by the NX Tester) Test Speed 1 seconds per 1024 test points (continuity only) 3 seconds per 1024 test points (continuity and shorts) High Voltage Hipot Range 50 - 1500VDC Insulation 5 $M\Omega$ - 1 $G\Omega$ (± 10) Resistance Range Hipot Duration .010 - 120 seconds per connection group General Display Easy to read 4-line x 20 character display Audible Tones Variety of user programmable tones for error notification and special events Program Storage 1.3MB with no file quantity limitation Control Ports 24 control port capability (additional hardware required) Serial Ports Two RS-232 ports (optional two additional RS-232 ports) Test Point Interface Din Connector (96 Position, 32 Loaded) Input Power 100 - 240VAC, 50-60Hz external power supply (30W Hipot, 60W Hipot+) Power supply provides 15VDC to the NX Tester Test Point Capacity NX Hipot: 64 - 128 test points NX Hipot+ 64 - 1024 test points NX Hipot+ 10,7" x 7.5" x 3.8" (27.2 cm x 19.0 cm x 9.7 cm) NX Hipot+ Display Unit: 2.10.7" x 3.8" (27.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Expansion Unit: 9.15 x 6.4" x 8.6" (24.2 cm x 16.3 cm x 15.5 cm) Weight NX Hipot+ Expansion Unit: 9.5 bis (6.3 Kg) NX Hipot+ Expansion Unit: 9.5 bis (6.3 Kg) NX Hipot+ Expansion Unit: 9.5 bis (6.3 Kg) Operating Temperature	Connections	
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Test Voltage 14 VDC maximum (Automatically selected by the NX Tester) Test Current 5mA DC (Automatically selected by the NX Tester) 1 seconds per 1024 test points (continuity only)) 3 seconds per 1024 test points (continuity and shorts) High Voltage Hipot Range 50 – 1500VDC Insulation In	4-wire mode	$.005 \ \Omega - 100 \ \Omega \ (\pm .005 \ \Omega, \ \pm 1\%)$
Test Current 5mA DC (Automatically selected by the NX Tester) Test Speed 1 seconds per 1024 test points (continuity only)) 3 seconds per 1024 test points (continuity and shorts) High Voltage Hipot Range 50 – 1500VDC Insulation Resistance Range 5M Ω – 1 G Ω (\pm 10) Resistance Range Hipot Duration .010 – 120 seconds per connection group General Display Easy to read 4-line x 20 character display Audible Tones Variety of user programmable tones for error notification and special events Program Storage 1.3MB with no file quantity limitation Control Ports 24 control port capability (additional hardware required) Serial Ports Two RS-232 ports (optional two additional RS-232 ports) Test Point Interface Din Connector (96 Position, 32 Loaded) Input Power 100 – 240VAC, 50-60Hz external power supply (30W Hipot, 60W Hipot+) Power supply provides 15VDC to the NX Tester Test Point Capacity NX Hipot+: 64 - 1024 test points NX Hipot+ 64 - 1024 test points NX Hipot+ 64 - 1024 test points Size (W x D x H) NX Hipot: 10.7" x 7.5" x 3.8" (27.2 cm x 19.0 cm x 9.7 cm) NX Hipot+ Base Unit: 9.5" x 6.4" x 8.6" (24.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Base Unit: 9.5" x 6.4" x 6.4" (24.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Display Unit: 10.7" x 2" x 3.8" (27.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Display Unit: 10.7" x 2" x 3.8" (27.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Expansion Unit: 9.7" x 6.4" x 6.4" (24.2 cm x 16.3 cm x 21.5 cm) Weight NX Hipot+ Expansion Unit: 9.3 lbs (6.3 Kg) NX Hipot+ Expansion Unit: 9.3 lbs (6.5 Kg) Operating Temperature	Relay Testing	Capable of active relay testing
Test Speed 1 seconds per 1024 test points (continuity only) 3 seconds per 1024 test points (continuity and shorts) High Voltage Hipot Range 50 – 1500VDC Insulation Resistance Range Hipot Duration .010 – 120 seconds per connection group General Display Easy to read 4-line x 20 character display Audible Tones Variety of user programmable tones for error notification and special events Program Storage 1.3MB with no file quantity limitation Control Ports 24 control port capability (additional hardware required) Serial Ports Two RS-232 ports (optional two additional RS-232 ports) Test Point Interface Din Connector (96 Position, 32 Loaded) Input Power 100 – 240VAC, 50-60Hz external power supply (30W Hipot, 60W Hipot+) Power supply provides 15VDC to the NX Tester Test Point Capacity NX Hipot: 64 - 128 test points NX Hipot+: 64 - 1024 test points Size (W x D x H) NX Hipot: 10.7" x 7.5" x 3.8" (27.2 cm x 19.0 cm x 9.7 cm) NX Hipot+ Display Unit: 10.7" x 2" x 3.8" (27.2 cm x 5.1 cm x 9.7 cm) NX Hipot+ Expansion Unit: 9.5" x 6.4" x 6.6" (24.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Display Unit: 10.7" x 2" x 3.8" (27.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Expansion Unit: 9.5" x 6.4" x 6.6" (24.2 cm x 16.3 cm x 15.5 cm) Weight NX Hipot: 7.4 lbs (3.4 Kg) NX Hipot+ Expansion Unit: 9.8 lbs (4.5 Kg) Operating Temperature	Test Voltage	14 VDC maximum (Automatically selected by the NX Tester)
High Voltage Hipot Range 50 – 1500VDC Insulation Resistance Range Hipot Duration .010 – 120 seconds per connection group General Display Easy to read 4-line x 20 character display Audible Tones Variety of user programmable tones for error notification and special events Program Storage 1.3MB with no file quantity limitation Control Ports 24 control port capability (additional hardware required) Serial Ports Two RS-232 ports (optional two additional RS-232 ports) Test Point Interface Din Connector (96 Position, 32 Loaded) Input Power 100 – 240VAC, 50-60Hz external power supply (30W Hipot, 60W Hipot+) Power supply provides 15VDC to the NX Tester Test Point Capacity NX Hipot: 64 - 128 test points NX Hipot+: 64 - 1024 test points Size (W x D x H) NX Hipot: 10.7" x 7.5" x 3.8" (27.2 cm x 19.0 cm x 9.7 cm) NX Hipot+ Display Unit: 10.7" x 2" x 3.8" (27.2 cm x 5.1 cm x 9.7 cm) NX Hipot+ Expansion Unit: 9.5" x 6.4" x 8.6" (24.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Expansion Unit: 9.5" x 6.4" x 6.1" (24.2 cm x 16.3 cm x 15.5 cm) Weight NX Hipot: 7.4 lbs (3.4 Kg) NX Hipot+ Expansion Unit: 9.8 lbs (4.5 Kg) Operating Temperature	Test Current	5mA DC (Automatically selected by the NX Tester)
Hipot Range 50 – 1500VDC Insulation Resistance Range 5 MΩ – 1 GΩ (± 10) Hipot Duration .010 – 120 seconds per connection group General Display Audible Tones Variety of user programmable tones for error notification and special events Program Storage 1.3MB with no file quantity limitation Control Ports 24 control port capability (additional hardware required) Serial Ports Two RS-232 ports (optional two additional RS-232 ports) Test Point Interface Din Connector (96 Position, 32 Loaded) Input Power 100 – 240VAC, 50-60Hz external power supply (30W Hipot, 60W Hipot+) Power supply provides 15VDC to the NX Tester Test Point Capacity NX Hipot: 64 - 128 test points NX Hipot+: 64 - 1024 test points NX Hipot+ 64 - 1024 test points NX Hipot+ Display Unit: 10.7" x 2" x 3.8" (27.2 cm x 19.0 cm x 9.7 cm) NX Hipot+ Display Unit: 10.7" x 2" x 3.8" (27.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Expansion Unit: 9.5" x 6.4" x 6.4" x 6.1" (24.2 cm x 16.3 cm x 15.5 cm) Weight NX Hipot 7.4 lbs (3.4 Kg) NX Hipot+ Expansion Unit: 9.5" x 6.4" x 6.6" (24.2 cm x 16.3 cm x 15.5 cm) Operating Temperature 40 – 100 degrees F (4 – 38 degrees Celsius)	Test Speed	
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Display Easy to read 4-line x 20 character display Audible Tones Variety of user programmable tones for error notification and special events Program Storage 1.3MB with no file quantity limitation Control Ports 24 control port capability (additional hardware required) Serial Ports Two RS-232 ports (optional two additional RS-232 ports) Test Point Interface Din Connector (96 Position, 32 Loaded) Input Power 100 – 240VAC, 50-60Hz external power supply (30W Hipot, 60W Hipot+) Power supply provides 15VDC to the NX Tester Test Point Capacity NX Hipot: 64 - 128 test points NX Hipot+: 64 - 1024 test points Size (W x D x H) NX Hipot: 10.7" x 7.5" x 3.8" (27.2 cm x 19.0 cm x 9.7 cm) NX Hipot+ Display Unit: 10.7" x 2" x 3.8" (27.2 cm x 5.1 cm x 9.7 cm) NX Hipot+ Base Unit: 9.5" x 6.4" x 8.6" (24.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Expansion Unit: 9.5" x 6.4" x 6.1" (24.2 cm x 16.3 cm x 15.5 cm) Weight NX Hipot+ Display Unit: 13.8 lbs (6.3 Kg) NX Hipot+ Expansion Unit: 9.8 lbs (4.5 Kg) Operating Temperature		5 MΩ - 1 GΩ (± 10)
Display Easy to read 4-line x 20 character display Audible Tones Variety of user programmable tones for error notification and special events Program Storage 1.3MB with no file quantity limitation Control Ports 24 control port capability (additional hardware required) Serial Ports Two RS-232 ports (optional two additional RS-232 ports) Test Point Interface Din Connector (96 Position, 32 Loaded) Input Power 100 – 240VAC, 50-60Hz external power supply (30W Hipot, 60W Hipot+) Power supply provides 15VDC to the NX Tester Test Point Capacity NX Hipot: 64 - 128 test points NX Hipot+: 64 - 1024 test points NX Hipot+: 64 - 1024 test points Size (W x D x H) NX Hipot+ Display Unit: 10.7" x 7.5" x 3.8" (27.2 cm x 19.0 cm x 9.7 cm) NX Hipot+ Base Unit: 9.5" x 6.4" x 8.6" (24.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Expansion Unit: 9.5" x 6.4" x 6.1" (24.2 cm x 16.3 cm x 15.5 cm) Weight NX Hipot+ Display Unit: 13.8 lbs (6.3 kg) NX Hipot+ Base Unit: 13.8 lbs (6.3 kg) NX Hipot+ Expansion Unit: 9.8 lbs (4.5 kg) Operating Temperature 40 – 100 degrees F (4 – 38 degrees Celsius)	Hipot Duration	.010 – 120 seconds per connection group
Audible Tones Variety of user programmable tones for error notification and special events Program Storage 1.3MB with no file quantity limitation Control Ports 24 control port capability (additional hardware required) Serial Ports Two RS-232 ports (optional two additional RS-232 ports) Test Point Interface Din Connector (96 Position, 32 Loaded) Input Power 100 – 240VAC, 50-60Hz external power supply (30W Hipot, 60W Hipot+) Power supply provides 15VDC to the NX Tester Test Point Capacity NX Hipot: 64 - 128 test points NX Hipot+ 64 - 1024 test points NX Hipot+ 64 - 1024 test points Size (W x D x H) NX Hipot: 10.7" x 7.5" x 3.8" (27.2 cm x 19.0 cm x 9.7 cm) NX Hipot+ Display Unit: 10.7" x 2" x 3.8" (27.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Base Unit: 9.5" x 6.4" x 8.6" (24.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Expansion Unit: 9.5" x 6.4" x 6.1" (24.2 cm x 16.3 cm x 15.5 cm) Weight NX Hipot+ Display Unit: 13.8 lbs (6.3 Kg) NX Hipot+ Expansion Unit: 9.8 lbs (4.5 Kg) Operating Temperature 40 - 100 degrees F (4 - 38 degrees Celsius)	General	
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Control Ports 24 control port capability (additional hardware required) Serial Ports Two RS-232 ports (optional two additional RS-232 ports) Test Point Interface Din Connector (96 Position, 32 Loaded) Input Power 100 – 240VAC, 50-60Hz external power supply (30W Hipot, 60W Hipot+) Power supply provides 15VDC to the NX Tester Test Point Capacity NX Hipot: 64 - 128 test points NX Hipot+: 64 - 1024 test points NX Hipot+: 64 - 1024 test points NX Hipot+ Display Unit: 10.7" x 7.5" x 3.8" (27.2 cm x 19.0 cm x 9.7 cm) NX Hipot+ Base Unit: 9.5" x 6.4" x 8.6" (24.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Expansion Unit: 9.5" x 6.4" x 6.1" (24.2 cm x 16.3 cm x 15.5 cm) Weight NX Hipot+ Display Unit: 2.5 lbs (1.2 Kg) NX Hipot+ Base Unit: 13.8 lbs (6.3 Kg) NX Hipot+ Expansion Unit: 9.8 lbs (4.5 Kg) Operating Temperature	Audible Tones	Variety of user programmable tones for error notification and special events
Test Point Interface Din Connector (96 Position, 32 Loaded) Input Power 100 – 240VAC, 50-60Hz external power supply (30W Hipot, 60W Hipot+) Power supply provides 15VDC to the NX Tester Test Point Capacity NX Hipot: 64 - 128 test points NX Hipot+: 64 - 1024 test points NX Hipot+: 64 - 1024 test points Size (W x D x H) NX Hipot: 10.7" x 7.5" x 3.8" (27.2 cm x 19.0 cm x 9.7 cm) NX Hipot+ Display Unit: 10.7" x 2" x 3.8" (27.2 cm x 5.1 cm x 9.7 cm) NX Hipot+ Base Unit: 9.5" x 6.4" x 8.6" (24.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Expansion Unit: 9.5" x 6.4" x 6.1" (24.2 cm x 16.3 cm x 15.5 cm) Weight NX Hipot+ Display Unit: 1.2.5 lbs (1.2 Kg) NX Hipot+ Base Unit: 13.8 lbs (6.3 Kg) NX Hipot+ Expansion Unit: 9.8 lbs (4.5 Kg) Operating Temperature 40 - 100 degrees F (4 - 38 degrees Celsius)	Program Storage	1.3MB with no file quantity limitation
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Input Power 100 – 240VAC, 50-60Hz external power supply (30W Hipot, 60W Hipot+) Power supply provides 15VDC to the NX Tester Test Point Capacity NX Hipot: 64 - 128 test points NX Hipot+: 64 - 1024 test points NX Hipot: 10.7" x 7.5" x 3.8" (27.2 cm x 19.0 cm x 9.7 cm) NX Hipot+ Display Unit: 10.7" x 2" x 3.8" (27.2 cm x 5.1 cm x 9.7 cm) NX Hipot+ Base Unit: 9.5" x 6.4" x 8.6" (24.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Expansion Unit: 9.5" x 6.4" x 6.1" (24.2 cm x 16.3 cm x 15.5 cm) Weight NX Hipot: 7.4 lbs (3.4 Kg) NX Hipot+ Display Unit: 2.5 lbs (1.2 Kg) NX Hipot+ Base Unit: 13.8 lbs (6.3 Kg) NX Hipot+ Expansion Unit: 9.8 lbs (4.5 Kg) Operating Temperature 40 – 100 degrees F (4 – 38 degrees Celsius)	Serial Ports	Two RS-232 ports (optional two additional RS-232 ports)
Power supply provides 15VDC to the NX Tester	Test Point Interface	Din Connector (96 Position, 32 Loaded)
NX Hipot+: 64 - 1024 test points Size (W x D x H) NX Hipot: 10.7" x 7.5" x 3.8" (27.2 cm x 19.0 cm x 9.7 cm) NX Hipot+ Display Unit: 10.7" x 2" x 3.8" (27.2 cm x 5.1 cm x 9.7 cm) NX Hipot+ Base Unit: 9.5" x 6.4" x 8.6" (24.2 cm x 16.3 cm x 21.9 cm) NX Hipot+ Expansion Unit: 9.5" x 6.4" x 6.1" (24.2 cm x 16.3 cm x 15.5 cm) Weight NX Hipot+ Display Unit: 2.5 lbs (1.2 Kg) NX Hipot+ Base Unit: 13.8 lbs (6.3 Kg) NX Hipot+ Expansion Unit: 9.8 lbs (4.5 Kg) Operating Temperature	Input Power	· · · · · · · · · · · · · · · · · · ·
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NX Hipot+ Display Unit: 2.5 lbs (1.2 Kg) NX Hipot+ Base Unit: 13.8 lbs (6.3 Kg) NX Hipot+ Expansion Unit: 9.8 lbs (4.5 Kg) Operating Temperature A0 - 100 degrees F (4 - 38 degrees Celsius)	Size (W x D x H)	NX Hipot+ Display Unit: 10.7" x 2" x 3.8" (27.2 cm x 5.1 cm x 9.7 cm) NX Hipot+ Base Unit: 9.5" x 6.4" x 8.6" (24.2 cm x 16.3 cm x 21.9 cm)
Temperature	Weight	NX Hipot+ Display Unit: 2.5 lbs (1.2 Kg) NX Hipot+ Base Unit: 13.8 lbs (6.3 Kg)
Warranty One year parts and labor		40 – 100 degrees F (4 – 38 degrees Celsius)
	Warranty	One year parts and labor

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Hipot Testers

NX Hipot Testers are fast, accurate, and easy to use. Dynalab designed NX Hipot Testers using the latest available technologies to provide a flexible and adaptable product line that meets the changing needs of wire harness manufacturers. NX Hipot Testers provide all the features of Dynalab's low voltage NX Testers, plus the additional capability of high voltage testing for insulation resistance and dielectric withstand. For test applications that span the range from simple to complex, Dynalab's NX Hipot Testers offer more features than the competition at a lower price.

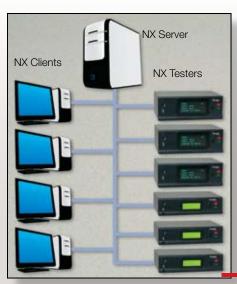
Dynalab Testers are used by the world's largest automotive and appliance wire harness manufacturers. With over 20 years of industry-leading experience and with more than 20,000 testers sold, Dynalab has firmly established a reputation of excellence in quality, capability and service.



Stand-alone operation – no PC required

Networking

- Harness production/testing processes can be monitored remotely from any PC.
- Test Programs can be sent remotely to any NX Tester in the plant.
- Thousands of Test Programs can be accessed directly from any NX Tester.
- Production and Quality data can be stored real time in a database.



Control External Devices

Activate Fixture Clamps

10000000

- Activate valves, relays, solenoids, etc.
- Illuminate LEDs

Read Barcodes

- Select programs automatically.
- Read data from harnesses or work orders.
- Verify correct part number and validate program name.

Print Reports

Track defects or test results, by printing a complete report of every harness tested.

Print Labels

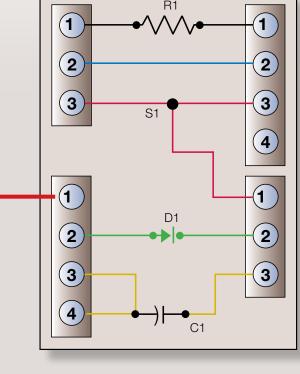
Identify good harnesses by printing real time data such as:

- Part Number and Revision
- Date and Time Serial Number
- Operator Name
- And more...

Electrical Test: Pass

Complete Electrical Test

- Wires Opens and Shorts
- Diodes Open, Short, Reverse
- Resistors 1 ohm to 2 Meg ohms
- Capacitors 100pF to 500uF
- Relays Active and Passive • Fixture Detection Switches
- Hipot Range 50 to 1500VDC
- Insulation Resistance 5 M Ω to 1 G Ω



Store and Transfer Programs

Transfers programs between a computer and a tester.



Manage Security

- Restrict access to Tester and Programs.
- Allows only authorized personnel to interrupt a Test.



Troubleshoot Fixtures

Provides assistance identifying test points, during a test or while troubleshooting test fixtures.





