

SERIES 90 WINDOWS SOFTWARE

FEATURES

- Windows 2K/XP/Vista/7 Application
- Interactive Wire List Editor
- Cut and Paste Editing
- Data Import from Excel
- Microsoft Access Data Base Format
- Command Button Toolbar
- Production Test Interface
- Test Results Storage
- Browser Interface for displaying HTML, GIF, and JPEG files.

#	Func.	From Point	To Point	Comment	Value	Tolerance
1	●—●	P1-1	P3-3	White Wire	(100 Ohm)	
2	●—∧—●	P1-2	P3-9	33 Ohm Resistor	33 Ohm	10 %
3	●—●	P1-3	P2-3	White Wire	(100 Ohm)	
4	●—●	P1-4	P2-9	White Wire	(100 Ohm)	
5	●—∧—●	P1-6	P3-5	100 Ohm Resistor	100 Ohm	10 %
6	●—●	P1-7	P2-8	White Wire	(100 Ohm)	
7	●—∧—●	E3	E1-1	10 kohm	10k Ohm	10 %
8	●—∧—●	E1-2	E1-3	1 kohm	1k Ohm	10 %
9	●—●	P1-11	P3-7	Green Wire	(100 Ohm)	
10	●— —●	E4	E2	Diode	180m V	10 %
11	●—●	P1-9	P3-1	Yellow Wire	(100 Ohm)	
12	●—●	P2-2	P2-6	Jumper	(100 Ohm)	
13	●—●	P2-4	P3-2	Blue Wire	(100 Ohm)	
14	●—●	P2-7	P3-8	Orange Wire	(100 Ohm)	

Wire List Editing

TestRite Software provides wire list editing in a table format.

Ease of Use

TestRite is the control software for Series 90 Analyzers. It's fast and easy to learn, and has a familiar look for Windows 2K/XP/Vista/7 users: title bars, menu, icons, and comparable commands. Keyboard and mouse operations are similar for selecting objects and choosing commands. Added specific tools, buttons, and tabs provide quick access to many of its major functions. TestRite consists of two application programs: TestRite (Editor) and TestPanel.

TestRite

TestRite (Editor) is a tool for creating, editing, and testing wire list programs. Without a tester connected, wire lists (continuities) and cross-reference lists (test point labels) can be created by PC keyboard. With a tester connected, a program can be learned from a harness by first selecting a LEARN command from TestRite's tool bar. The wire list can then be saved to disk; or prior to saving, cross-references can be assigned to test points using the PC keyboard.

Interactive Wire List Editing

Tests can be performed directly from the editor allowing fast evaluation and further editing of the wire list. This interactive operation during wire list editing greatly reduces and simplifies the programming process. Tabs, at the bottom of TestRite window, provide for selection of wire list, cross-reference list, and error list without leaving the editing process. No compiling or processing of the wire list is required prior to running tests.

TestPanel

TestPanel is a tool for running tests already programmed. TestPanel displays a simulated tester front panel on the PC monitor for use during production test. Test programs are selected through a standard Windows opening and loaded into the tester. Once loaded, a simple click on the simulated front panel TEST button initiates a test. Test results are displayed in the simulated tester display window.

Series 90 Analyzers

Series 90 analyzers provide high-speed continuity testing including resistor, capacitor, and diode measurements. They have a broad range of test applications from simple wire harnesses to prescreening of loaded circuit boards. A special high-voltage version, the Series 90HV, provides isolation testing up to 1500 vdc and high current continuity tests up to 1 amp. Series 90 analyzers have an extensive assortment of programmable options to allow customizing of tester operation, test parameters, test results printing, and data logging.

Test Features

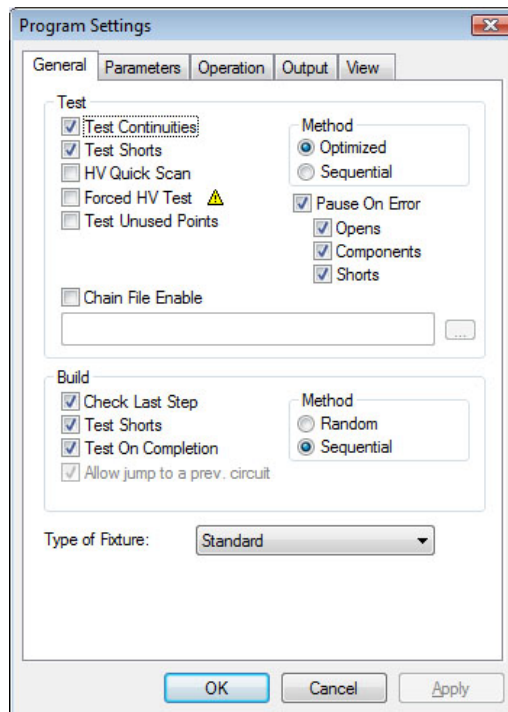
Wire list programming can be performed by scanning a known-good assembly, or by keyboard entry using TestRite (Editor). TestRite (Editor) is also used to enter component values, and to assign 16-character user labels, and 32-character circuit labels (comments). Files containing notes and graphics may be assigned to specific circuits to provide instructions to the operator.

Programmable test options, controlling how tests are run, how test results are displayed, printed, and stored, are programmed through the Program Settings dialog box from the General tab. Each wire list program may be set up individually, since these settings are stored with each program.

Programmable thresholds allow settings of the connection resistance and isolation resistance for all circuits in the wire list. Threshold settings are programmed through the Parameters tab. Individual circuits may also have different threshold values, each of which is programmed in a value field for the specific circuit in the wire list.

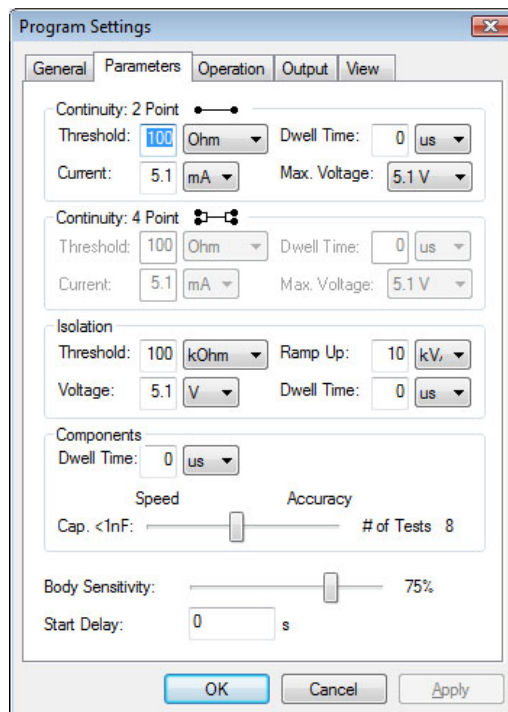
Component measurements can be programmed to measure resistor and capacitor values, and diodes for proper orientation and voltage drop. Component values are entered in value fields in the wire list for the specific circuit.

Process data can be stored during test to generate and print test summary reports. During Build, data can be stored to compare assembly times against standards. The process data is output to a file in a comma-delimited format, allowing easy import into a data base or spreadsheet for further processing.



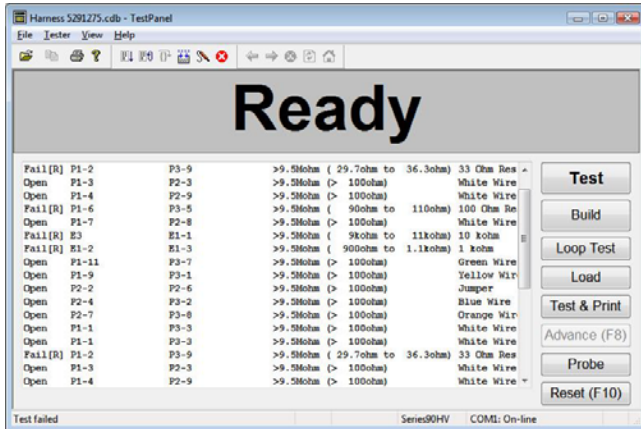
Program Settings

This dialog box controls how tests are run, how test results are displayed, printed, and stored.



Test Parameters

This dialog box sets the resistance values for continuity and isolation.



TestPanel

Test results are displayed in the simulated tester interface window

Build Features

Build features of the Series 90 and TestRite enable production workers to quickly identify and route conductors to termination points in wire harnesses and backplanes. Text and graphic displays on the monitor provide detailed instructions in the routing and termination of the conductors. Once terminated, the Series 90 verifies that the conductor has been terminated correctly. These features greatly reduce training and assembly time, and prevent rework.

Locating Wires

The Series 90 utilizes a feature called Body Conduction to locate and identify points by touch. Through a wrist strap, a small current, less than 5 μ a, is applied to the operator. The Series 90 can then identify wires as they are touched by the operator. When the correct wire for assembly is touched, an audible tone is sounded.

Sequential and Random Build

TestRite and the Series 90 provide two methods for harness assembly: Sequential and Random. Sequential build aids harness assembly through a predetermined sequence and is typically used when terminating into high-density connectors or for tighter tolerances in the physical dimensions of the harness.

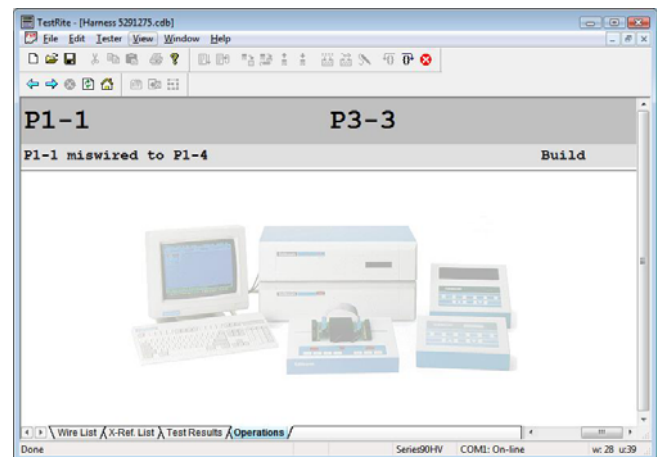
Random build allows the operator to select any unterminated wire in any order for termination and is used when the physical dimensions of the harness are not affected by the assembly sequence. Regardless of whether a wire is selected at random or is the next in a predetermined sequence, TestRite displays its circuit information such as origin (from point), destination (to point), and comments that had been entered in the wire list.

Terminating the Correct Wire

During Build, TestRite opens an operations window for displaying circuit information. When the correct wire is terminated, a tone is sounded and the system advances to the next assembly operation. If the wire is only momentarily connected, TestRite backs up and redisplay the correct termination. A short is displayed if the wire is shorted to another point or inserted into the wrong location.

Displaying Work Instructions

TestRite utilizes Windows Internet Browser capabilities to display additional assembly information during build. Each circuit in the wire list can have a file or URL assigned, which will be displayed whenever the circuit information is displayed. The assigned file can be any type that the Internet Browser can display. These file types include plain text, HTML, picture files in GIF and JPEG formats, as well as video and audio clips.



Build Operations

Work instructions can be displayed during harness assembly.

System Requirements

The computer running the TestRite application must have the following minimum resources:

- Windows 2K/XP/Vista/7
- 100 MB free hard-drive space
- RS232 serial communication port or USB to RS232 converter

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ORDERING INFORMATION	
Stock No.	Description
5210966	Replacement System Controller
5211107	TestRite Software for Series 90 on CD ROM.