



VEBKO ONLINE HELP

Quick Type

Category	tester
Section	AMT Sequencer Module
Language	English
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because "State Type: Quick" is very useful, for this "State Type", there is a "Layout" named "Default Layout for Quick" designed for this "State Type" in "Window" menu. In this "Layout", "Detail View", "Signal View", "Impedance View" and "Vector View" windows are located by default.

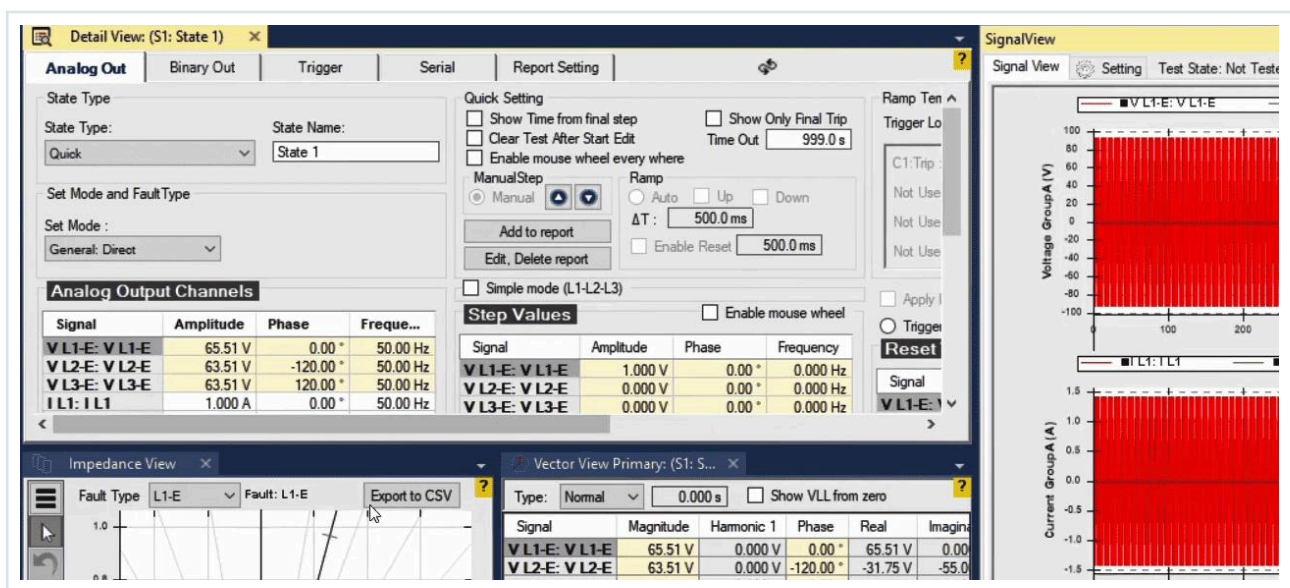


Figure 1

To describe this "State Type" and to view the outputs, it is better to maximize only "Detail View" and "Signal View" windows. In this "State Type" it is possible to, either manually or automatically, adjust the voltage and current signal output of the device in form of an increasing or decreasing ramp. In this "State Type" the user can create an increasing or decreasing ramp not only on the amplitude of signals but also on phase and frequency values. In "Analog Out" tab in "State Type" section, "Quick" is selected from the slide bar and in the "State Name" field, a name is selected for the intended "State".

Description about "State Type: Quick" is provided in "General: Direct" mode. In this mode, the voltage and current signals are initialized directly. To create an increasing or decreasing ramp on outputs of the device, information of "Analog Output Channels" and "Step Values" tables should be completed.

1 "Analog Output Channels" table

In this table the start value of signals is entered which indicates the start point of the ramp. This start value can be entered for all three parameters amplitude, phase and frequency of current or voltage. It should be noted that it is possible to use ramp on both voltage and current signals simultaneously. For example, the start values of voltage signals are "10", "15", and "20" volts and "2", "3" and "4" amps for current signals. Other information related to "Analog Output Channels" has been described before.

2 "Step Values" table

In this table, the value of "Step" to increase or decrease signals is entered. In this table it is possible to enter the "Step" value for all three parameters amplitude, phase and frequency. This means that it is possible to increase or decrease all these parameters simultaneously with different or the same amplitudes. At the top of this table, by checking "Simple mode (L1-L2-L3)", you will have the same steps for all three voltage or current phases. After checking this option in "Voltage" and "Current" sections, the parameter on which we wish to create a ramp is selected from the slide bar in the "Ramp on" section. Then, the "Step" value is entered in "Step Value" field.

After unchecking "Simple mode(L1-L2-L3)", in "Step Values" table, "1", "2" and "3" volts are entered for voltage signals as ramp values while for current signals, "0.1", "0.2" and "0.3" amps are entered as ramp values.

By checking "Enable mouse wheel" option, if the cursor is on "Step Values" table, by using the mouse wheel, it is possible to increase or decrease the signal values and the specified steps simultaneously. This can be during or even before running the test. It should be noted that these changes are only possible if the ramp is set on "Manual" mode.

3 "Quick Setting" section

In this section by checking "Show Time from final step", the time from the final step is displayed. One of the uses for this is in measuring the trip time of the relay. By checking "Clear Test after Start Edit" after running the test, if any changes are made to the test, without using the Clear test option, Information and setting can be altered.

By checking the "Enable mouse wheel everywhere" option and holding the mouse pointer over the "Detail View" window, the values of the signals will increase or decrease with the specified steps if the mouse roller is rotated. If the mouse roller is turned upwards, the ramp will be incremental, and if it is rotated downwards, the ramp will be decreasing. This option is also used when the ramp is changed manually. If you also check the "Enable mouse wheel on step Table" option, the output values will change only by turning the mouse roller if the mouse pointer is on the "Step Values" table.

By checking "Show Only Final Trip" option, the trip time is displayed by binary inputs of the last step. In "Time Out" field, the injection time of "State" is specified which is by default in set on "999" seconds in "Quick" mode. In "Quick" mode, the ramp is created either automatically or manually. After running the test if the "Manual" option is selected, the ramp is created manually and by clicking on "^" and "v" it is possible to create increasing or decreasing ramp.

If during the test "Auto" option is selected, ramp is created automatically. In "t" field the time of each step is specified. By selecting "Up", the ramp increases automatically and by selecting "Down" it decreases automatically. In "Enable Reset" field, it is possible to specify the reset time of signal value in a way that after checking this option during the test, the signal value is "Reset" for the specified period of time which is determined in "Reset" in "Reset Values" table.

In this "State Type" it is possible to add information and results of the test to the output report by clicking on "Add to report" option. After clicking on this option, by opening the "State and Comment of Report" page, the settings related to the output report are adjusted. In the "Title" field, a title is entered for the output report and in "Show in Report" section from the "Quick" tree diagram, it is specified that what information are to be included in the output report. In "Comment" section, it is possible to add an additional comment or explanation for the report. In "Custom Image" section, you can add an image to the report. In this report, it is the user who determines whether the test was successful or not by clicking on "Passed" option for success and "Failed" option for failure of the test. Then, the result is included in the report which can be viewed in the "Report View" window.

By clicking on "Edit.Delete.Report" option, the "Delete from Report" window opens where it is possible to edit or delete the added reports. It is done by selecting the intended report and clicking on "Edit Selected Report" to edit the report and then clicking on "Passed" or "Fail". It is, also, possible to delete a report by clicking on "Delete Selected Report". In the row of every report there are columns like "Trip Time", "Detail View", etc. which are added to the report if "True" is selected as their value but "False" is selected, they are removed from the output report.

By clicking on "Swap" at the top of the page, "Quick Setting" and "Ramp Termination" sections are swapped. This is done, according to the user's need, to show the "Ramp Termination" section. In "Ramp Termination" section, the conditions for terminating the "Ramp" are specified. The difference between this section and "State Termination" is that here the signal injection is continued and only step change of signals is terminated but in "State Termination" after the condition is met, the "State" is terminated. The termination conditions of "Ramp" are just like "Trigger Setting" which has been described in previous videos.

By selecting "Reset Value", it is possible to adjust the "Reset" value for voltage and current signals in "Reset Values" table so if "Apply Reset" is selected during the test, the values of voltage and current signals change to the specified "Reset" values. This feature is useful in tests like "Minimum Voltage to Operate Circuit breaker. By clicking on "Apply Zero", the values of voltage and current signals are changed to zero. By clicking on "Hold Value", the values of voltage and current signals remain as they

are and do not change.

The information related to "Trigger Setting" has been described in previous videos. By selecting "Offset Value", it is possible to give an offset to the signal in the "Offset Value" table. For example it is possible to give a value of "DC=10" volts to "VLE-1" signal or even give a value of decaying "DC" to the initial voltage. It is also possible to add a harmonic offset to the initial signal by changing the frequency. After repeating the test, all changes made along with their time are displayed in "Changes" section. "Disable Relay" section has been described in previous videos.

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