



VEBKO ONLINE HELP

“Measurement View” Window, Part1

Category	tester
Section	AMT Sequencer Module
Language	English
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In relation the "sequencer" windows, the "Measurement View" window would be explained in this video. This window is used to evaluate the test results and some criteria determined for the "Pass" or "Fail" of the test. Note that evaluation can be performed before or after the test then the results evaluated. To explain this section three "states" of "Prefault", "Fault" and "Postfault" are created in the "TableView" that the followed voltages are injected: in "Prefault", content voltage of 10 V for two seconds; in the "Fault" state, the voltage will increase from 10 V to 15 V as "continuous Ramp" in 10 seconds and in "Postfault" the 0 V for one second.

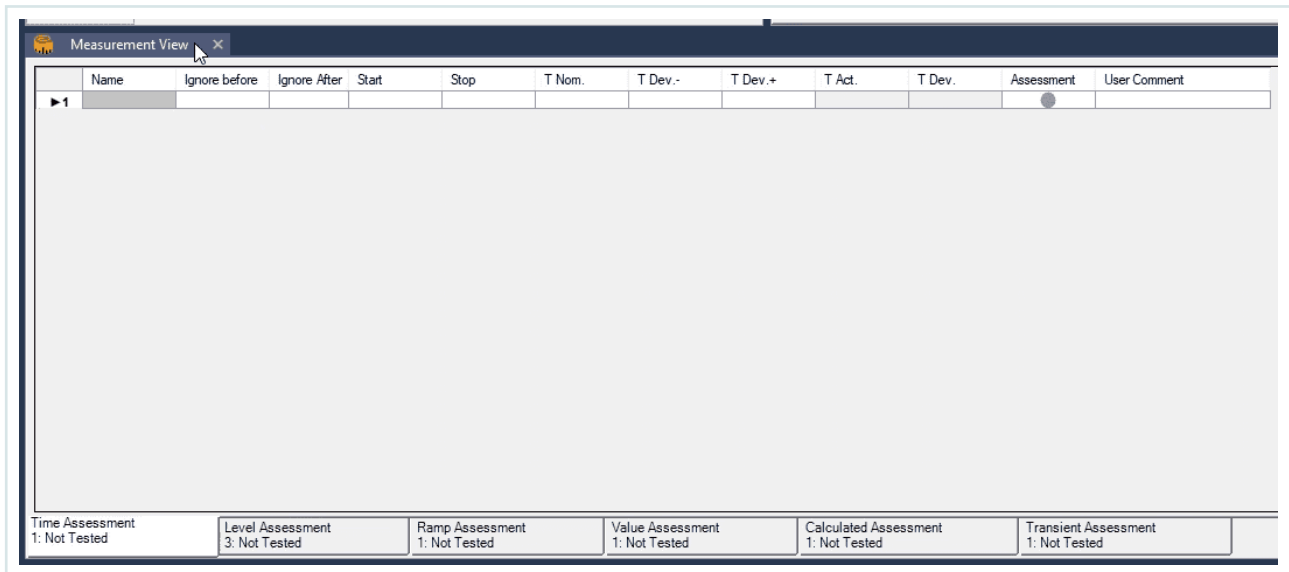


Figure 1

Table View			
	☐ S1	☒ S2	☐ S3
Name	Prefault	Fault	Postfault
V L1-E: V L1-E	10.00 V	10.00 V	0.000 V
V L2-E: V L2-E	10.00 V	10.00 V	0.000 V
V L3-E: V L3-E	10.00 V	10.00 V	0.000 V
I L1: I L1	1.000 A	1.000 A	1.000 A
I L2: I L2	1.000 A	1.000 A	1.000 A
I L3: I L3	1.000 A	1.000 A	1.000 A
Bin. Out	...	...	...
Trigger	2.000 s	10.00 s	1.000 s
Type	Normal	Continu	Normal
Comment			
Bin. Input	C3 ☐	C3 ☐	C3 ☐
	C4 ☐	C4 ☐	C4 ☐

Figure 2

1 "Time Assessment" tab

The "Measurement View" window has some tabs that each one evaluates a special item. In the "Time Assessment" tab, an event time is evaluated in the test this event is received by a signal from "Trip" or "Pick Up" from a relay or logic with a combination of various conditions. In this tab, some rows is "added" and multiple time evaluations can be performed. In the "Name" column, a name, for example, "Trip Time" can be inserted for evaluation. Since it's possible that a "Trip" signal can be recorded in different times, in the "Ignore before" and "Ignore after" a General range from the test "States" are selected so the time evaluation of these events are performed in this range. For example, by selecting the "State :Fault", all the events before the "Fault" "state" would be ignored in the "Ignore before" column. In the same way, by selecting the "State" in the "Ignore after" column, all the events after the "Fault" "state" are ignored.

In the "Start" column, the time reference and in the "Stop" column, the event that is meant to be evaluated is specified. Here, receiving the "start" signal are selected from binary 4 as the reference and receiving the "Trip" contact as the binary3 would be selected as the intended event for time evaluation. Note that, there exists an option named as "Logic" in the "Start" and "Stop" columns that by right-clicking on it and selecting the "View Custom Setting", a logic with the combination of various conditions for evaluation start time reference and final conditions of evaluation time calculation would be specified. In the "TNom" column, the expected nominal time of "Start" and "Stop" enters and in the "TDev+" and "TDev-" columns, the positive and negative tolerances are entered that could be different from each other.

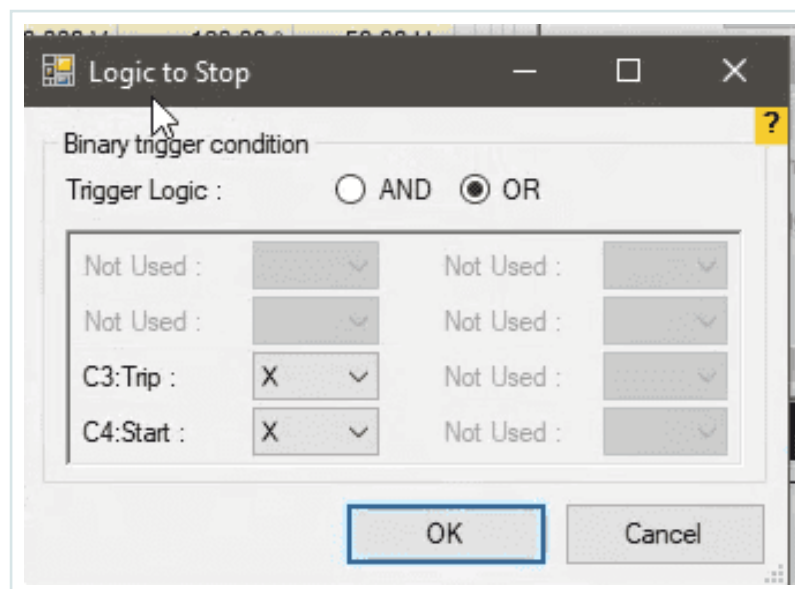


Figure 3

Here, to evaluate the test, a nominal time of three seconds, a positive tolerance of two seconds and a negative tolerance of one second are entered. After running the test and recording the results in the table, the real-time of the event is specified in the "TAct" column that is about 3.623 seconds and its deviation from the "TNom" is recorded as a percentage in the "TDev" column. In the "Assessment" column, the evaluation is performed that if the "Tact" time is in the defined range of (TNom)-(TDev-) to

(Tnom)+(TDev+), the evaluation is "Passed" and if it is not in this range the evaluation is "Failed". Here, because the 3.623 seconds are located in the range of 2 to 5 seconds, the test is passed. In the "user comment" column, you can enter your desired notes.

	Name	Ignore before	Ignore After	Start	Stop	T Nom.	T Dev.-	T Dev.+	T Act.	T Dev.	Assessment	User Comment
► 1	Trip Time	S2: Fault	S2: Fault	C4: Start 0>1	C3: Trip 0>1	3.000 s	1.000 s	2.000 s	3.623 s	20.76 %		
2												

Figure 4

In the right-clicks of this section, by selecting the "Copy" option, the information of an evaluation row could be copied and by "Pasting" it, a new row with the information is created. By selecting the "Add" option, a blank row is added to the evaluation table. By selecting the "Insert before" and "Insert After" a blank row is added before and after the selected row and other time evaluations can be defined in these rows. The "Delete" will delete the selected row.

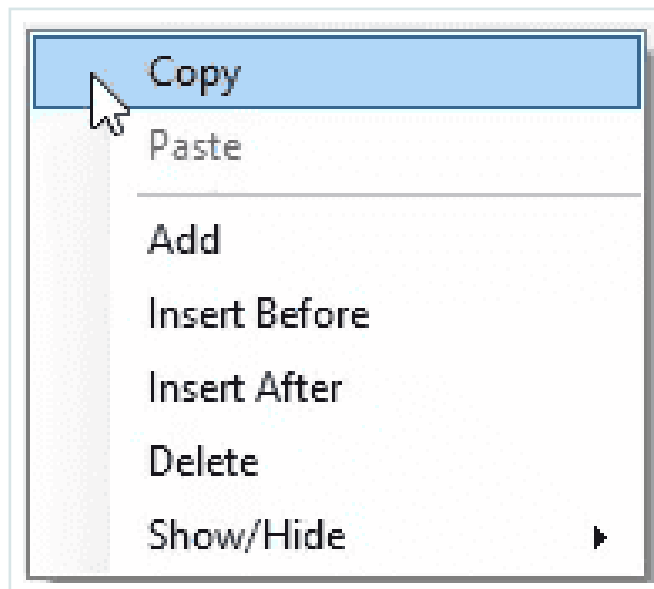


Figure 5

The last option in this section is the "Show/ Hide" option that is composed of two "Table" and "Report" options. There exists a list in the "Table" and "Report" sections that are exactly the same as the evaluation table columns. By unchecking each of them, that column would be deleted from the "Table" in the "Measurement View" or the "Report" section.

[jg1]Time_Assessment_of_a_Test