



Additional Settings of “Detail View”

Category	tester
Section	AMT Sequencer Module
Language	English
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1 "Continue Last State Amplitude" Option:

This option appears in the "States" after "State Type: Step Ramp" in "Detail View" window. By checking this option, the current or voltage value of the current State is injected from where the previous "State"

is finished. This option is used to measure the relay trip time or "Pickup Drop off" test in relays. For example, in "Pickup Drop off" test an increasing "Step Ramp State" is created where three-phases 2amps to 4amps current increases with 0.2amp steps and "Trigger" condition for reception of "Pickup" signal is specified. Note that "Binary Input 2" is specified for "Pickup" signal reception.

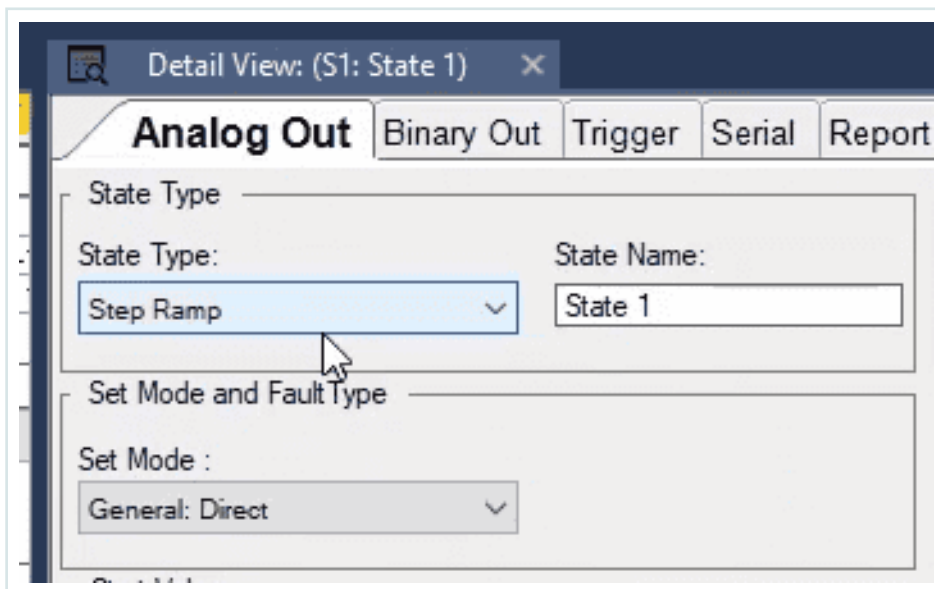


Figure 1

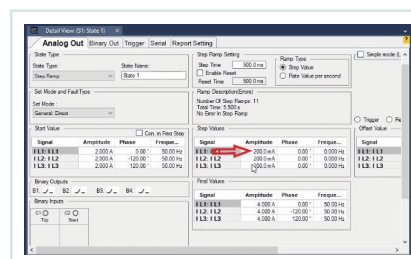


Figure 2

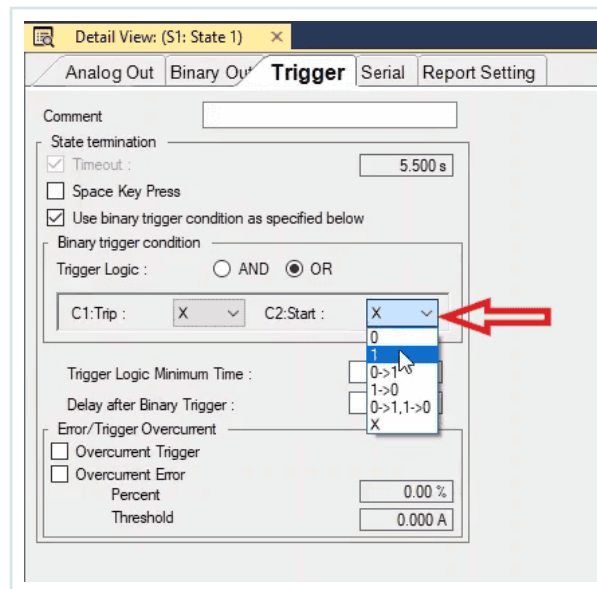


Figure 3

The second "State" is a decreasing "Step Ramp" where three-phases 4amps to 2amps current decreases with 0.2amp steps and "Trigger" condition of "Dropping" the relay (1->0) is specified. After performing the test, you can see that after receiving the "Pickup" contact, the second "State" starts decreasing from 4amps until the relay "Drops". But if you check the "Continue Last State Amplitude" option in "State2" and perform the test, after receiving the "Pickup" signal, the current in the second "State" starts decreasing from where the relay performed the "Pickup" and keeps doing so until the relay performs the "Drop".

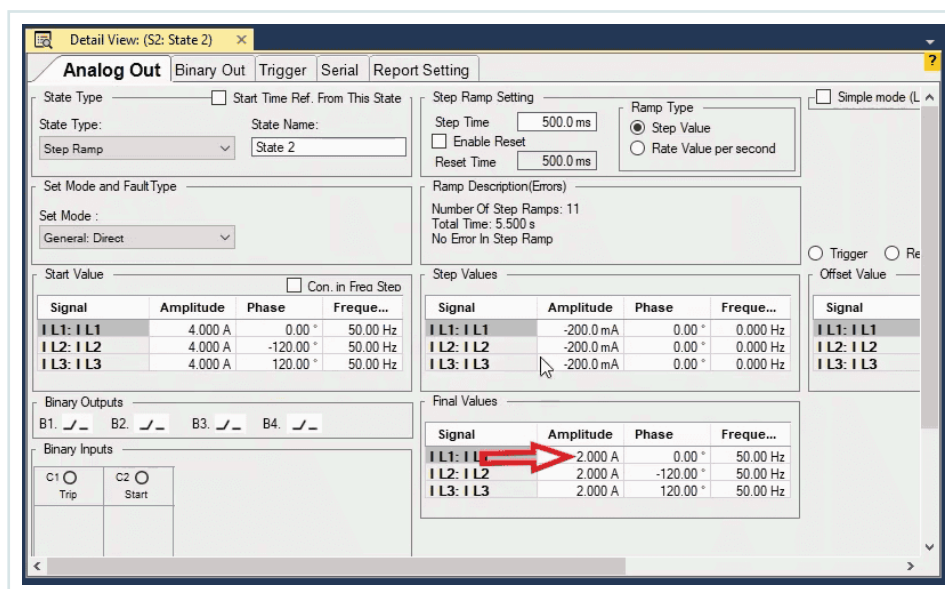
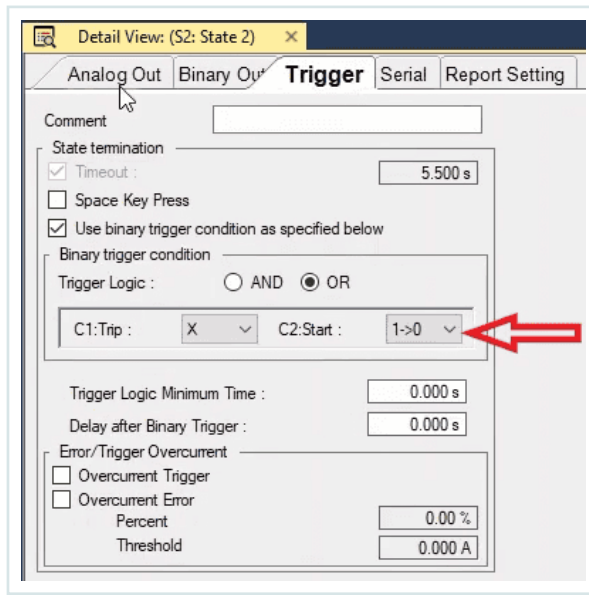


Figure 4



Detail View: (S2: State 2)

Analog Out Binary Out **Trigger** Serial Report Setting

Comment

State termination

☒ Timeout : 5.500 s

☐ Space Key Press

☒ Use binary trigger condition as specified below

Binary trigger condition

Trigger Logic : ☐ AND ☒ OR

C1: Trip : X C2: Start : 1->0

Trigger Logic Minimum Time : 0.000 s

Delay after Binary Trigger : 0.000 s

Error/Trigger Overcurrent

☐ Overcurrent Trigger

☐ Overcurrent Error

Percent : 0.00 %

Threshold : 0.000 A

Figure 5

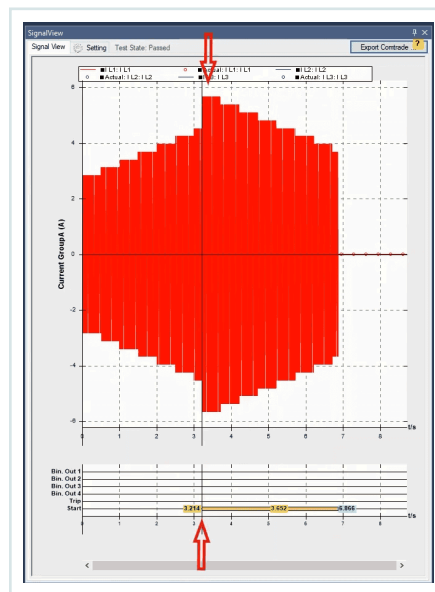
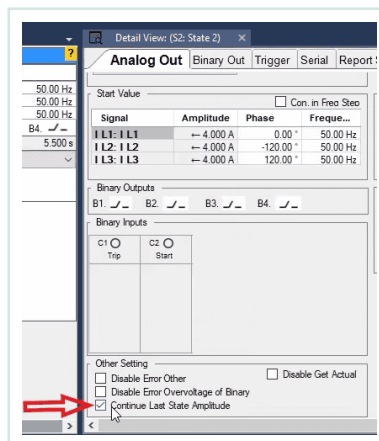


Figure 6



Detail View: (S2: State 2)

Analog Out Binary Out Trigger Serial Report

Start Value

☐ Con. in Free Step

Signal	Amplitude	Phase	Frequency
I L1: I L1	4.000 A	0.00 °	50.00 Hz
I L2: I L2	4.000 A	-120.00 °	50.00 Hz
I L3: I L3	4.000 A	120.00 °	50.00 Hz

Binary Outputs

B1 B2 B3 B4

Binary Inputs

C1 C2

Trip Start

Other Setting

☐ Disable Error Other

☐ Disable Error Overvoltage of Binary

☒ Continue Last State Amplitude

☐ Disable Get Actual

Figure 7

2 "Disable Get Actual" Option

If you check the "Show Actual Value" option in "Hardware Configuration" window, the "Disable Get Actual" option appears in "Detail View" window. By checking this option, the actual current or voltage value will not be displayed in that "State". If there are two "States" and the injection time in a "State" is too long and you do not want to view the actual value, by checking the "Disable Get Actual" option in "Detail View" window, the actual value will not be displayed in that "State".

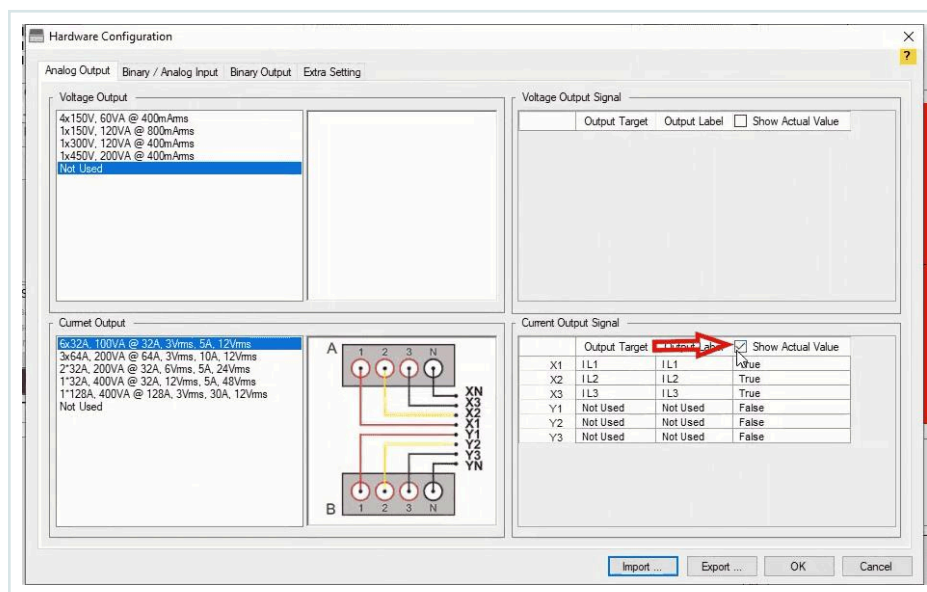


Figure 8

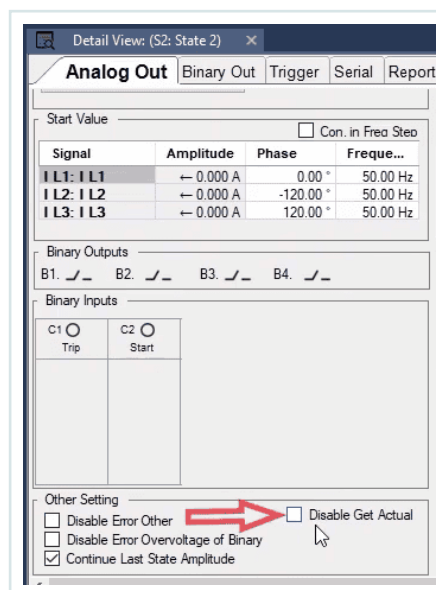


Figure 9

3 "Disable Relay" option

In the back of every voltage or current output of the device there are relays which separate the "Amplifier" section of the inside of the device from the front panel. Before performing the test these relays must be connected and then the voltage or current is injected from the outputs of the device. In "Disable Relay" section in "Detail View" window, by checking any of the options available in the list, it is possible to disable the relay related to that output and then after performing the test you can see that the actual output value of the intended port equals zero. This option is used in tests such as magnetic flux division in transformer because by using this option, it is possible to create different modes of open circuit of coils for the test automatically.

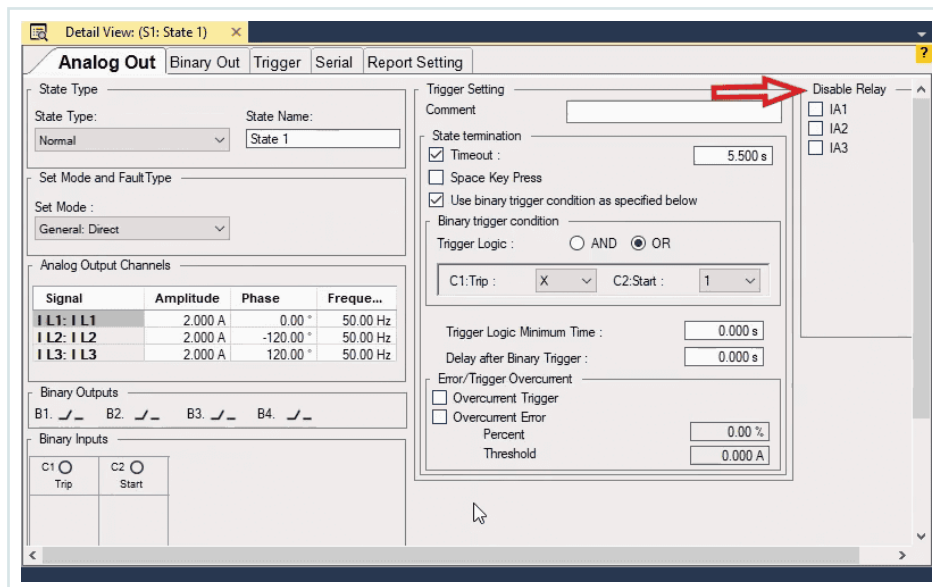


Figure 10

To perform tests such as transformer wiring resistance test which needs a long time to charge the winding of the transformer, the current starts increasing from zero and during this time, because of the difference between the specified current and the actual current injected by the device, there is error Other. So to make the test practical it is necessary to disable the error "Other" so that the test can continue. Also, in this test, it is possible that huge voltage peaks occur momentarily; therefore to avoid stopping the test, the "Overvoltage" error of the binary needs to be disabled as well.

The last option on this page is "Start Time Ref. From This State". To better understand the function of this option, suppose that there are two "States" and the first one is "330" milliseconds while the second is "35" milliseconds. Normally, the first "State" is followed by the second "State" and the signal is continuous. In this example, if you zoom on the border of the two "States" in "Signal View",

you can view the continuity of the signal. In this case, the time reference to determine the phase of the signals is the first "State". This is why even though in the second "State" the "I1" current phase is zero, its signal does not begin from zero. Now, by checking "Start Time Ref. From This State" option, you can see that the time reference of the second "State" is changed and considered from the beginning of this "State".

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