



VEBKO ONLINE HELP

Start-Condition-Repetition" Window

Category	tester
Section	AMT Sequencer Module
Language	English
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By clicking on the "View" menu and selecting the "Start-Condition-Repetition" option, or by clicking on its icon from the toolbar this window opens. In the "Start Condition" tab, the test conditions can be specified. If you want the test to be run immediately after clicking on the "Start" icon, you have to select the "Immediately" radio button. After selecting this option in Status bar, the St. Cond. is set on the "Immediately" and after running it the test starts immediately there is no delays exist between clicking on "Start" and "Run". Please remember that the software default is this option.



Figure 1

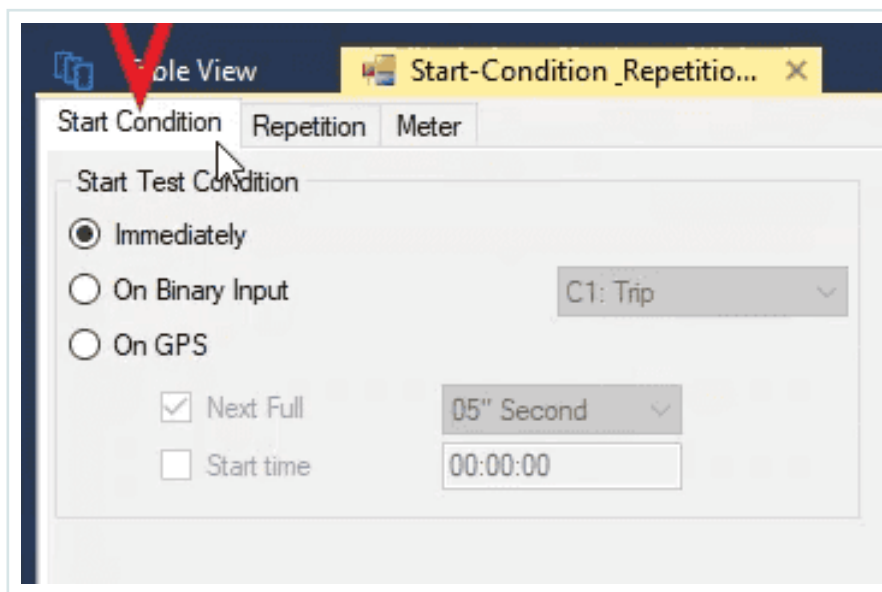


Figure 2

If you want the test to be run after receiving the contact by one of the binaries, you have to select the "On Binary Input" option. By selecting this option, its right side option is selected that you have to select the intended binary in it to start the test. In this field, the activated binaries are shown in the "Hardware Configuration". For example, the "C2: Start" is selected, now in the statusbar, the "St. Cond." has been set on the BI.2-Start. After clicking on the "Start" icon, you see that because not receiving the contact by the "C2" binary, the test has not been executed, now by receiving the contact by this binary, the test runs.

The third method to start and run a test is the use of a "GPS" antenna. By selecting the "On GPS", a test could run according to the "GPS" clock. One of the applications of this option is in the longitudinal

differential or "End to End" tests. To run the test using this option, the socket of the "GPS" antenna should be connected to the rear part of the "AMT105" device and the antenna is located in open space. By clicking on the "Start Sync" option, the "sync" process of the device with the satellite begin and in the "GPS Status:" field (shown in the figure) the "GPS" status is shown. By "Syncing" of the device and software in the "GPS Status:" field, the "GPS is Sync" term is shown. In addition, in status bar, the St. Cond. is set on the GPS (Sync). Also, in the status bar, GPS time error is displayed in the "Time Error" section. Please remember that this number should be less than 1000 ns. The tester time is displayed online in this toolbar. In the "Satellite Signal Level History" section, the number of satellites and the strength of each signal is shown. If the number of satellites and the signal strength is proper, the phrase "Detected" is displayed in the "Time Pulse" field and the device receives the "GPS" signals. Then, the device should be able to synchronize its time with the received signals from the "GPS". The date and time of the tester are specified in the "Date and Time Tester" section that this time should be identical with the time of the "GPS" in the "Data and Time GPS" field.



Figure 3



Figure 4

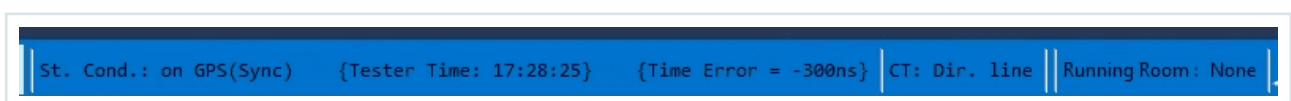


Figure 5

In the 32 bits windows, if the tester time is not the same as the time of your personal computer, you can use the Set Windows" "Time GPS (Win X86) so the time of your computer become identical with the "GPS" time.

Using the "Next Full" and "Start Time" options, how and when the test run are selected. Using the "Next Full", after selecting this option, you have to specify the time between the sequential tests for the "Shot test" from the drop down list. For example, if you have several test points in the differential test, by selecting the "10 Second", the GPS, by considering the injection time of the device, starts to count down in 10 s cycles and in case of existence of untested point, when the inverse counter reaches zero, the next point is tested. Using this option, the start time for the "End to End" tests might not be the same. To solve this problem, you have to start the test using the "Start Time". Remember this time is the time that the device adjusts with the "GPS". Remember in this method, only the first point is tested and the rest won't. For these kinds of tests, the "Next Full" and "Start Time" should be simultaneously checked so the first point start with the "GPS" clock and the next points would run with the "Next Full" method.

For example, if in the differential room and for "End to End" test you have got four test points and want to run the test at the same time with another point, you have to set the "Start Time" on a special time, for example, 17:47:30 and also, set the "Next Full" on 10 seconds. The first point is tested in the specified time and the next points are tested during the specified time period in the "Next Full". You also see that in the status bar, the test time of each point and the remaining time until the next intended test point will be displayed in the "Start" and "Left Time" sections, respectively.

In the "Data" section, the data about the "GPS" time, test location, etc. are shown. In the "Data and Time GPS" field, the time and data received from "GPS" are displayed. In addition, after that the "Sync" ends, the tester time is recorded in the "Date and Time Tester" field. Remember this time should be identical with the time recorded in the "Date and Time GPS". Also, the geographical width and length of the test location are displayed in "Latitude" and "Longitude" fields, respectively and added to the test report to be used, the exact location of the test could be found on the map. In addition, in this section, in the "Altitude" section, the "GPS" amplitude with respect to the base level are displayed. In the "Fix Mode", "PDOP" and "HDOP" fields, various models of the location, location precision and altitude precision are displayed. In the satellite field, the number of satellites used for settings are displayed. If the device receives the sent pulses from the "GPS", in the "Time Pulse" field the word "Detected" is displayed. But if these signals are not received, the word "Not Detected" is displayed. In addition, in the "Satellite Signal Level" window, the signals receiving level from the "GPS" are displayed and in the "Satellite Signal Level History", the number of satellites and the signal strength related to various satellites are displayed.

1**"Repetition"Tab**

Since this tab is active only in the "AMT Sequencer" room and inactive in other rooms, at first, the "AMT Sequencer" room opens and the descriptions related to this section are presented in the "Start Condition-Repetition" window. This tab is active only in the "AMT Sequencer" room and is inactive in other rooms. This tab is used for repeating a test for the desired number of times. The number of test repetitions are inserted in the "Number of Repetition" field that the test can run for a maximum of 1000 times. For example, here, the number five is inserted so the test would be repeated five times. Also, if the user wants to make a delay between each test repetition, he can enter this time as a delay in the "Time between Repetitions". For example, here, the 1 second is inserted and the test "RUN". You see that the intended test runs five times and with the time intervals of 1 second.

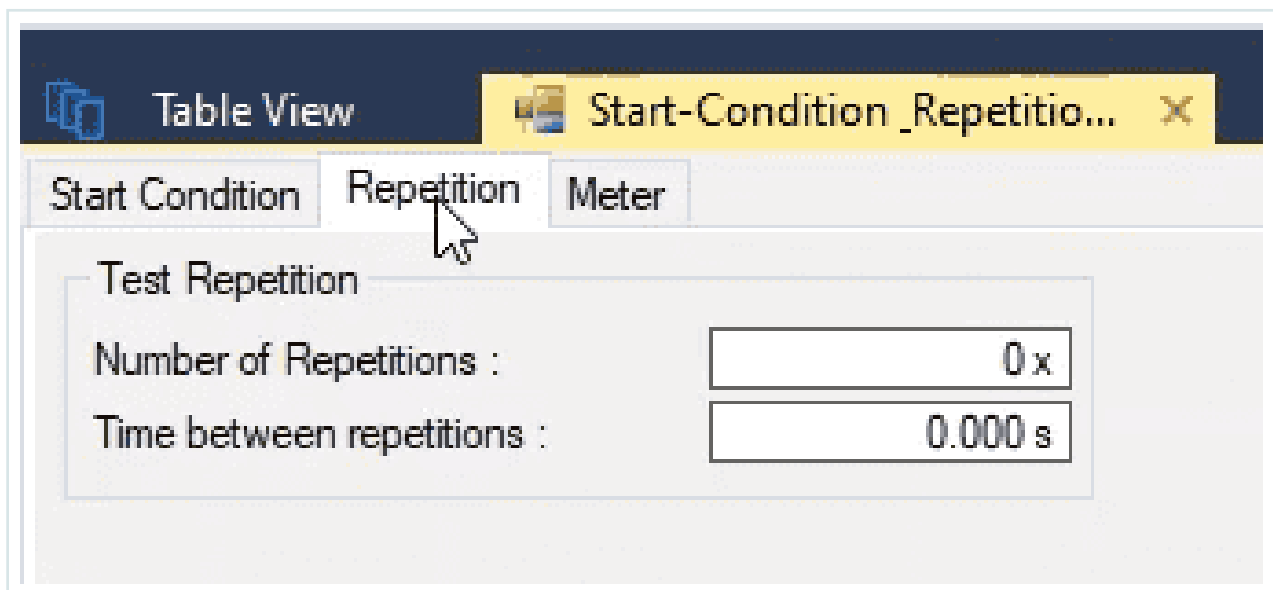


Figure 6

[jg1]Start_condition_repetition_window