



VEBKO ONLINE HELP

Ability to Convert Output Binary Voltage to Current and Vice Versa

Category	tester
Section	AMT Sequencer Module
Language	English
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1 Imported Content

In the Sequencer room, first in the Hardware configuration window, set the Type Setting based on the 205AMT device and Set the Output Voltage and Signal Output Voltage settings according to what you see . Then open the View Vector window to see the values of the current and the output and input voltages of the device in different modes, we add.

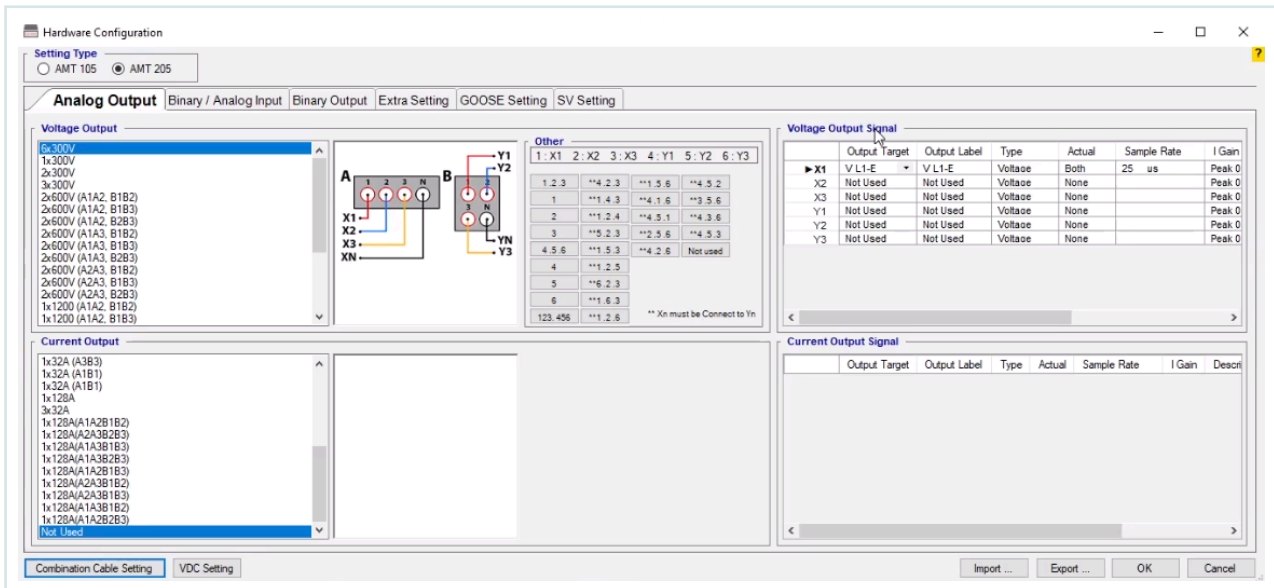


Figure 1

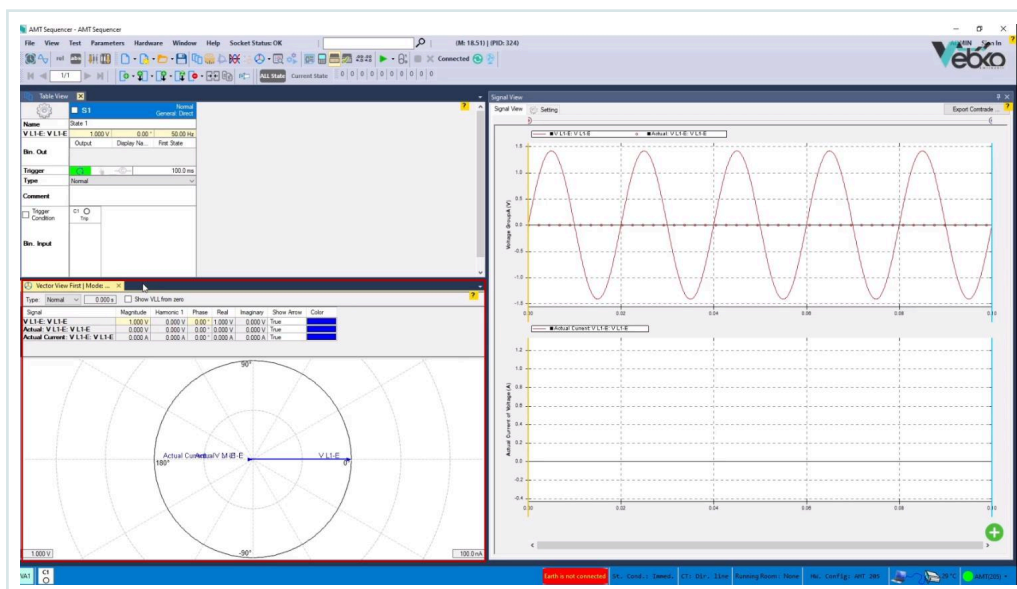


Figure 2

To clarify this concept better, first connect a 100 ohm resistor to the VA 1 voltage output and in the View Table window, Column VL1 is set to 1V and time to 0.1s and after running the test in the View

Signal and View Vector windows, you can see the injective and transitive values.

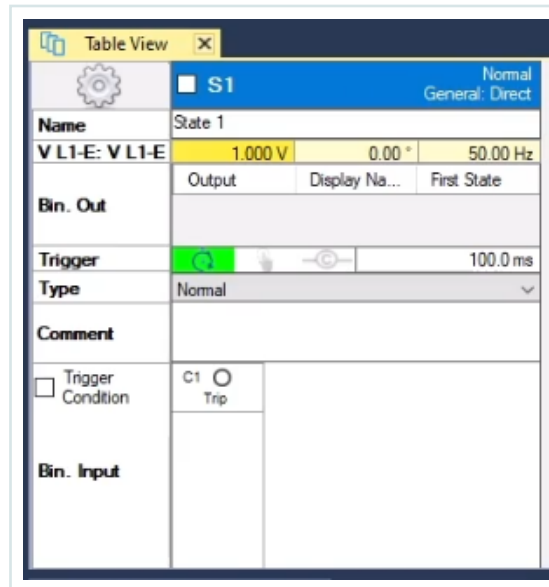


Figure 3

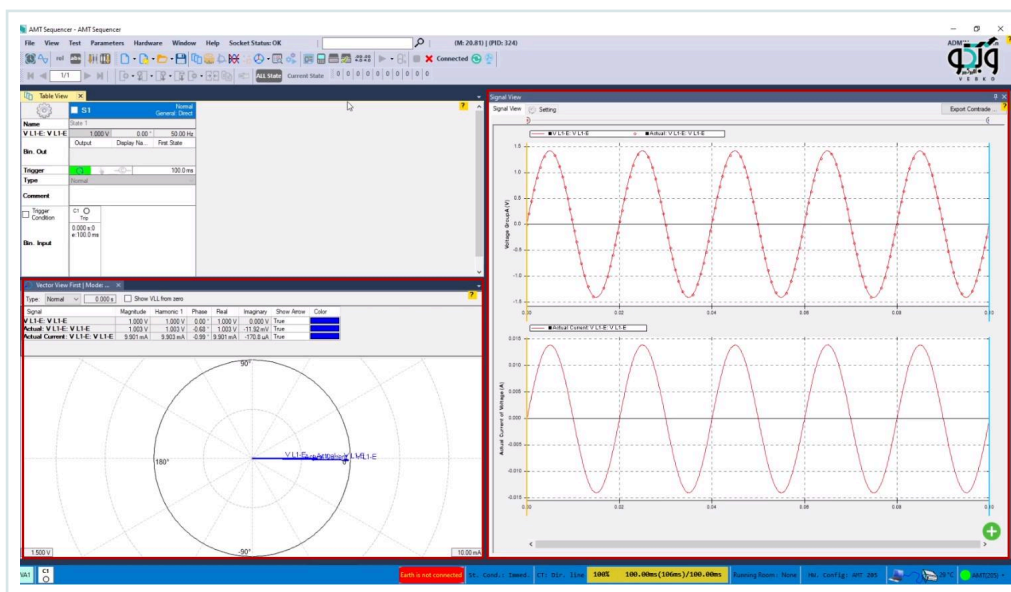


Figure 4

Now you can convert Output Voltage to Output Current. For this, enter the Hardware Configuration tab and changed the Type from Voltage to Current and returning to the View Table window, you can see that the VL1 unit is changed to A.

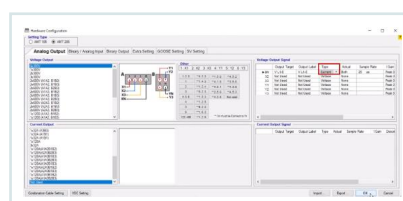


Figure 5

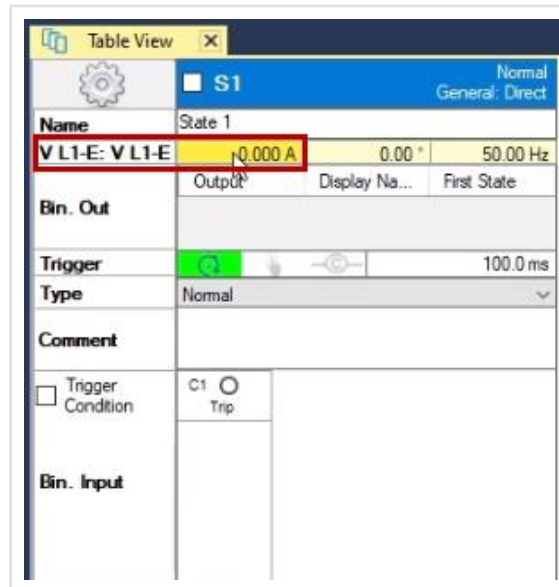


Figure 6

By injecting 100 mA, you can see that the read voltage is 10V, and this action determines that from the output Current Low, High Voltage we can use two current and voltage control modes.

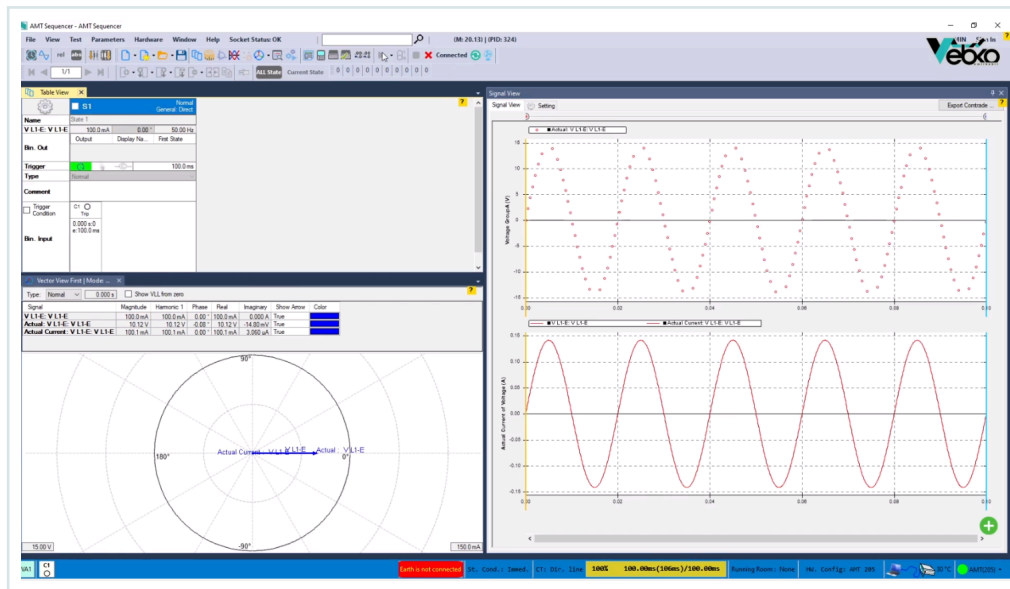


Figure 7

To determine more precisely the advantage of this option, first change the resistance to 1 kilo ohm. By then converting Type to Voltage and injecting 1V, you see that the current is read as 1 mA.



Figure 8

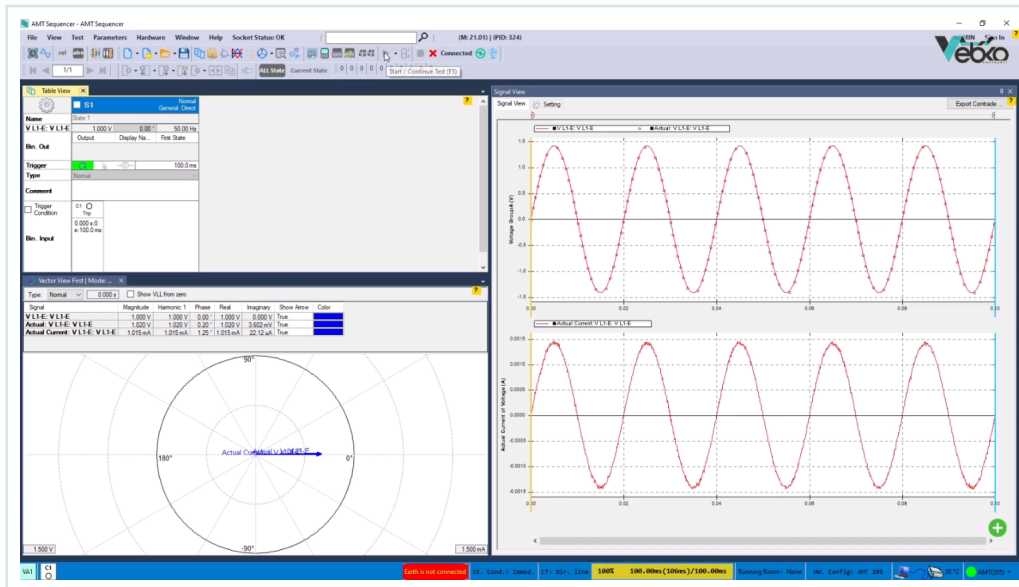


Figure 9

By changing the Type again to Current and injecting 100 microamps,

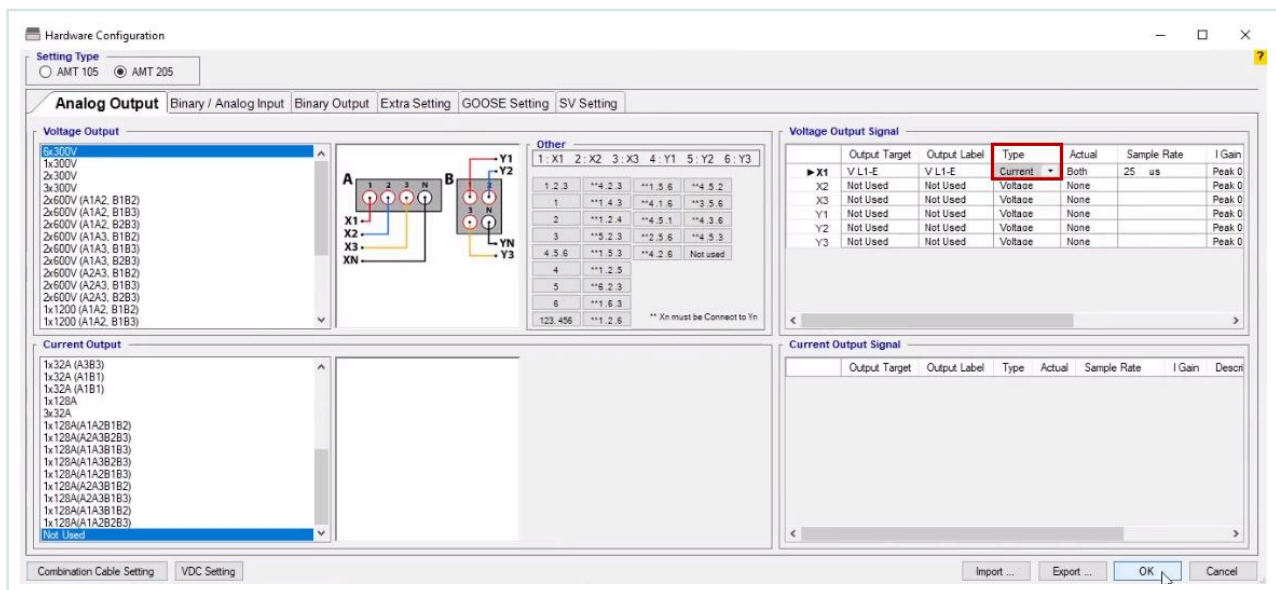


Figure 10

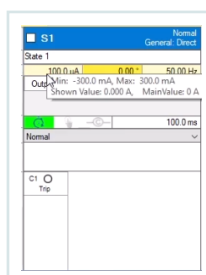


Figure 11

observe the real current injected and the read voltage, we will come to the conclusion that to have low current with high accuracy Convert Current Low, Voltage High into a current. Also, in order to have low voltage with high accuracy, it is necessary to convert Current High, Voltage Low into a voltage.

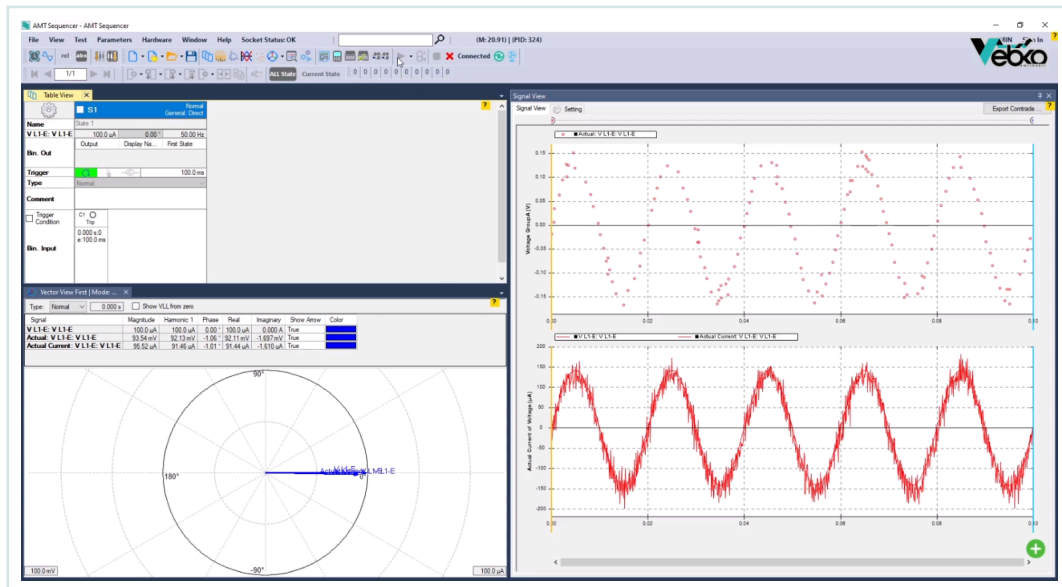


Figure 12

It should be noted that in Current Low, Voltage High mode, the voltage peak is 420 V and the current peak is 1 A, and in High Voltage, Low mode Current, the voltage peak is 22 V and the current peak is 94 A.

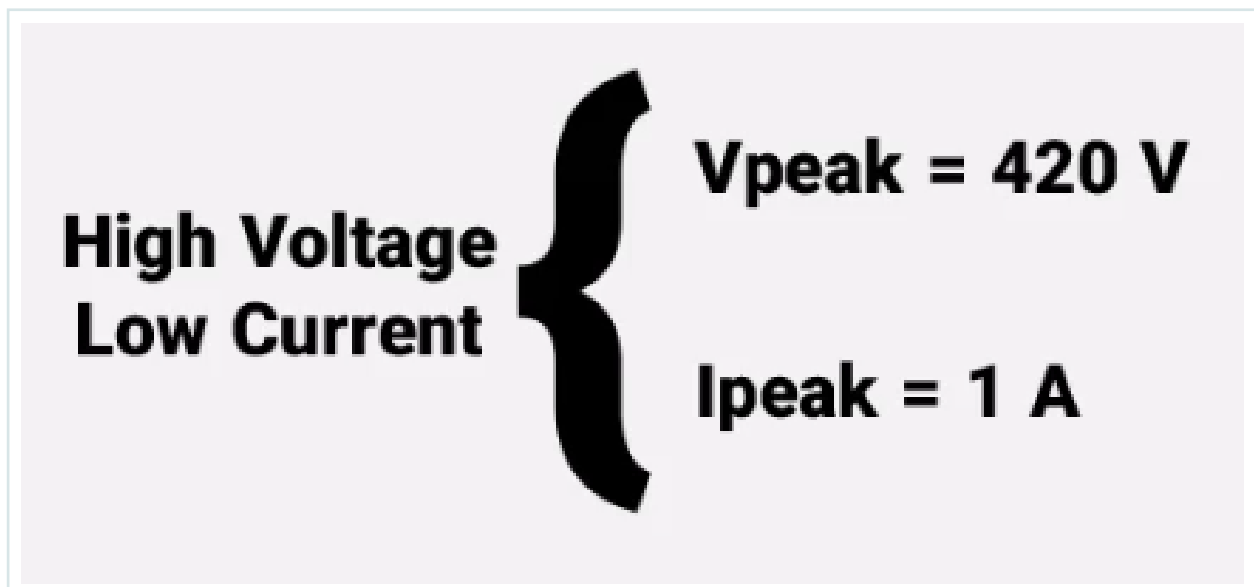


Figure 13

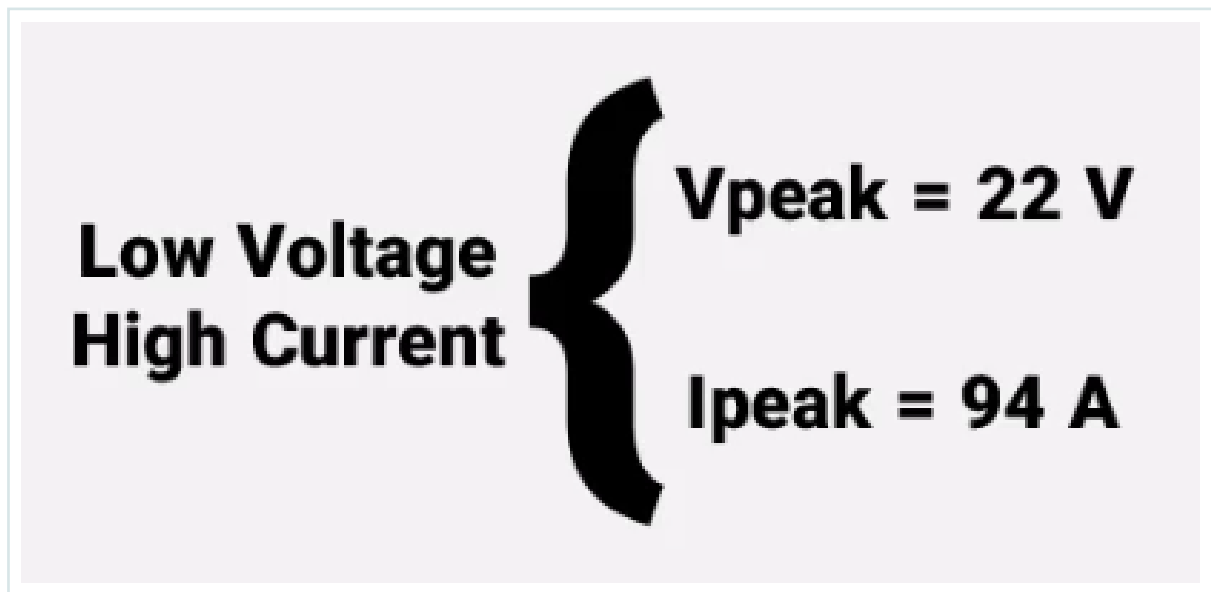


Figure 14

[jg1]Ability_to_convert_Output_Binary_voltage_to_current_and_vice_versa