



VEBKO ONLINE HELP

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# Binary Input Setting, Part1

|           |                                      |
|-----------|--------------------------------------|
| Category  | <b>tester</b>                        |
| Section   | <b>Modules Toolbar and Statusbar</b> |
| Language  | <b>English</b>                       |
| Generated | <b>2026-10-18</b>                    |

Under the "Binary Input" tab in "Hardware Configuration" window, the settings of the 10 binary inputs of the device are set. Binaries 1 to 8 are located at the bottom of the device from left to right. Binaries 9 and 10 are located in the upper right row of the device. Binaries 1 to 8 are of the voltage type. The binaries 9 and 10 are used for measuring AC and DC currents (with 50micro precision) up to 500mA and 240mv respectively.

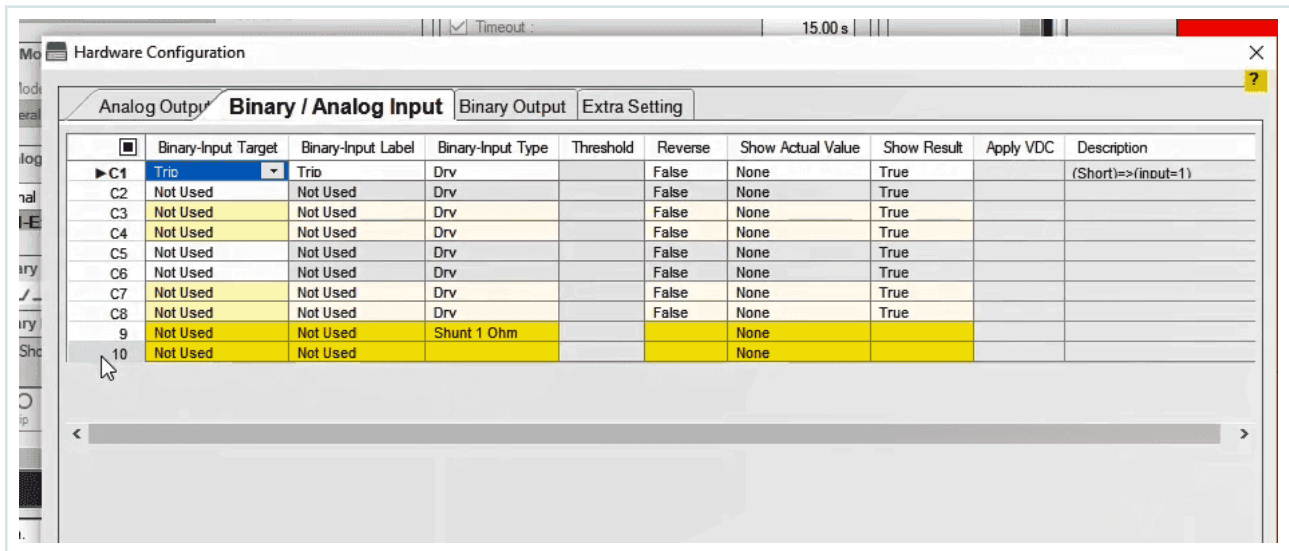


Figure 1

Activating and deactivating a "Binary Input": Activation or deactivation of binaries is determined in the "Binary Input Target" column. For example, you can activate binary number 3 by clicking on its relevant field. In this case, a list of different targets is displayed and you can select one depending on your test's needs. Note that the binary inputs of the device may be sensitive to your selected target. While testing the equipment and changing the hardware configuration of the device, you should note that the label of binary inputs must be selected in accordance with the information in the test configuration. By clicking on this field and selecting "Not Used", it is possible to deactivate the corresponding "Binary Input". It is also possible to use the "N" shortcut to deactivate a "Binary Input". You can activate or deactivate the binaries 1 to 8 at the same time by using the square above the binaries' numbers column.

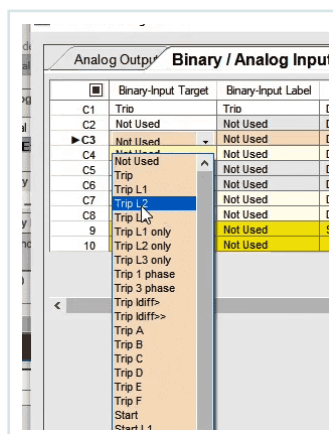


Figure 2

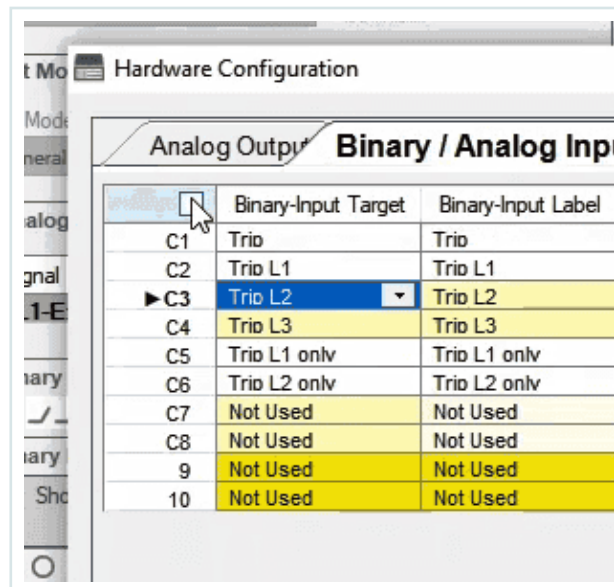


Figure 3

Selecting a "Label" for a "Binary Input": You can select a "Label" for your desired "Binary Input" in the "Binary Input Label" column. By default, the "Label" selected in the "Binary Input Target" is listed in this part but the user can, also, select a different "Label" from the drop-down list or enter a new "Label" in Persian or English. It should be noted that in "Report" and binary signal display in "Signal Label", the "View" specified in this section is displayed as the label for the signal. This also applies to "Analog Output" and "Binary Output" and in the "Report" the "Label" is displayed for the desired parameter.

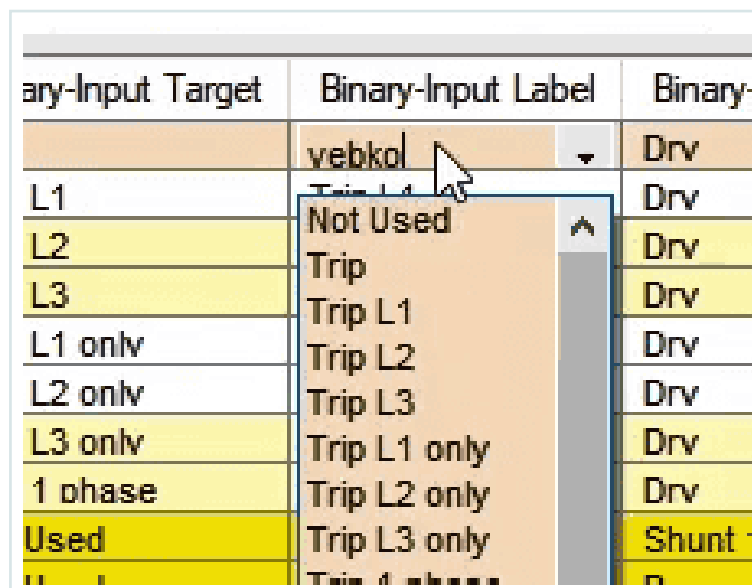


Figure 4

Specifying Binary-Input Type: In the "Binary Input Type" column, the type of binary inputs number 1 to

8 is selected from two generic modes of "Dry" and "Wet", which is by default set as "Dry". In this case, there is a 2V DC on the two ends of "Binary Inputs" (Zero Mode) and by short-circuiting the output contacts of the relay, the voltage decreases to zero and the digital signal 1 is detected by the binary.

| alog Input   | Binary Output     | Extra S   |
|--------------|-------------------|-----------|
| -Input Label | Binary-Input Type | Threshold |
|              | Drv               |           |
|              | Drv               |           |
|              | Dry               |           |
|              | Wet Max 188 (V)   |           |
|              | Wet Max 30 (V)    |           |
|              | Wet Max 4.5 (V)   |           |
| only         | Drv               |           |
| only         | Drv               |           |
| only         | Drv               |           |
| phase        | Drv               |           |

Figure 5

In the "Wet" mode, the binaries number 1 to 8 are set to measuring mode. There are three levels for this mode. In the "Wet Max 4.5(V)" level, the "Binary Input" measures up to 4.5V (with 1mV precision), up to 30V (with 3mV precision) in the "Wet Max 30(V)" and up to 188V (with 10mV precision) in the "Wet Max 188(V)" level. When the "Wet" mode is selected for "Binary Input", the "Threshold" column is activated. In this column, a threshold is specified for "Binary Input" status. For example in the "Wet Max 188(V)" level, if the threshold is set to "50", if the maximum input voltage is less than 50V, digital signal 0 is detected while with a maximum input voltage more than 50V, digital signal 1 is detected.

| Input | Binary Output     | Extra Setting                         |         |                   |    |
|-------|-------------------|---------------------------------------|---------|-------------------|----|
| Label | Binary-Input Type | Threshold                             | Reverse | Show Actual Value | Sh |
|       | Wet Max 30 (V) ▾  | 10.00 V                               | False   | None              | Tr |
|       | Drv               | Min: na V, Max: 30.00 V               |         |                   | Tr |
|       | Drv               | Shown Value: 10.00 V, MainValue: 10 V |         |                   | Tr |
|       | Drv               |                                       | False   | None              | Tr |
|       | Drv               |                                       | False   | None              | Tr |
|       | Drv               |                                       | False   | None              | Tr |
|       |                   |                                       |         |                   |    |

Figure 6

If the "Binary Input" is used for measuring the voltage, it is important to select the maximum level of

"Wet" measurement. For example, to measure a 23V voltage, the binary level "Wet Max 30(V)" must be selected. If "Wet Max 4.5(V)" is selected, when the voltage exceeds 4.5V, the software gives an "Over Voltage Binary" error message and if the "Over Voltage" error has not been enabled, by exceeding the specified voltage, the binary input operates in a dual-purpose mode which means that it records the logical signal (pick up or trip) and, also, measures the voltage and by injecting AC voltage, the binary turns into repetitive zeros and ones. In this case, the memory of the software gets full and a "Result is Full" error is displayed. Also, if the "Wet Max 188(V)" is selected, the measurement precision is decreased.

| el | Binary-Input Type | Threshold                           | Reverse | Show Actual Value | Show R |
|----|-------------------|-------------------------------------|---------|-------------------|--------|
|    | Wet Max 4.5 (V) ▼ | 1.00 V                              | False   | None              | True   |
|    | Drv               | Min: na V, Max: 4.50 V              |         |                   | True   |
|    | Drv               | Shown Value: 1.00 V, MainValue: 1 V |         |                   | True   |
|    | Drv               |                                     | False   | None              | True   |
|    | Drv               |                                     | False   | None              | True   |

Figure 7

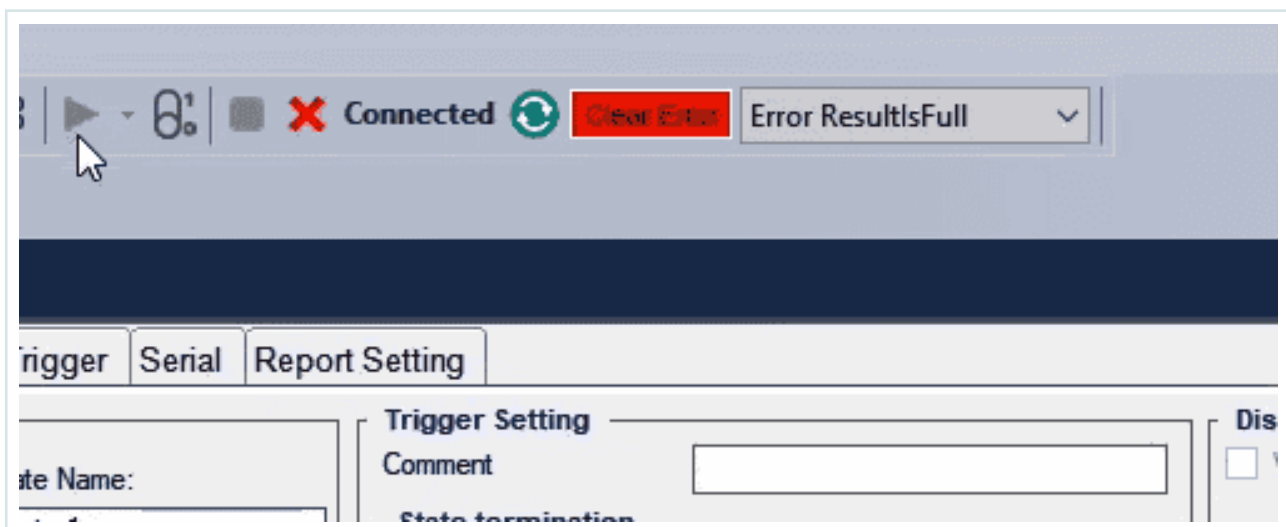


Figure 8

| Label | Binary-Input Type                                                                                   | Threshold | Reverse | Sh |
|-------|-----------------------------------------------------------------------------------------------------|-----------|---------|----|
|       | Wet Max 188 (V)  | 1.00 V    | False   | No |
|       | Drv                                                                                                 |           | False   | No |
|       | Drv                                                                                                 |           | False   | No |
|       | Drv                                                                                                 |           | False   | No |

Figure 9

[jg1]Binary\_Input\_Setting\_Part1