



VEBKO ONLINE HELP

Determining Decimal Numbers, Part 1

Category	tester
Section	Modules Toolbar and Statusbar
Language	English
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After explaining the toolbar, it is necessary to give an introductory about the basic concepts in the system. Each room includes four main parts: 1- "Number of Decimal Places Setting" Display settings for numbers and quantity units in the test rooms. 2- "Hardware configuration" For the Device hardware settings. 3- "Test Object Parameters" To access the relay settings. 4- "Report View" To access the output and the test reports. Given these four components and the nature of each window and its functions in every room, you can run a test.

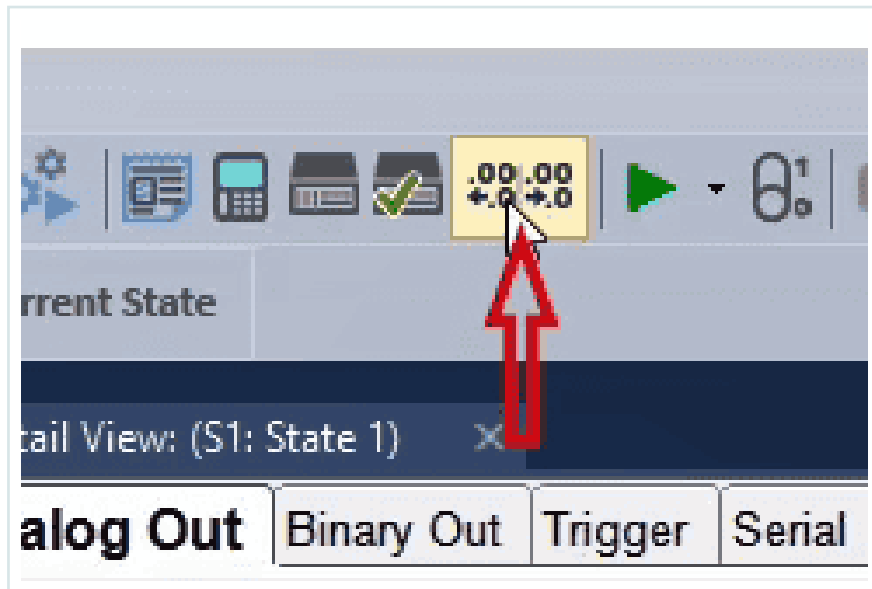


Figure 1

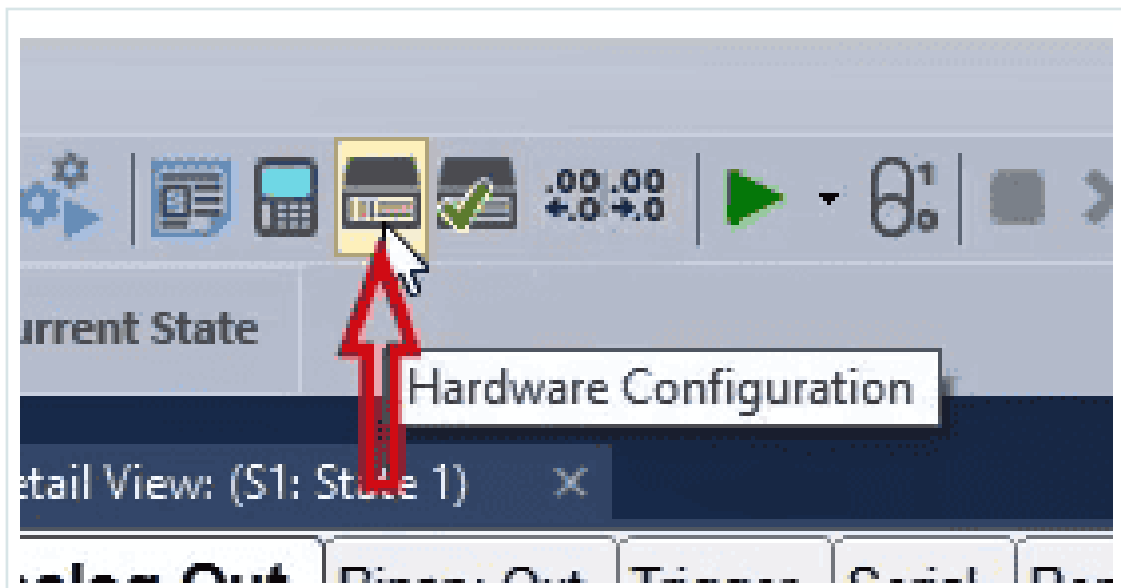


Figure 2

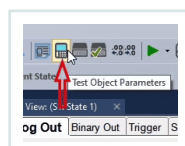


Figure 3

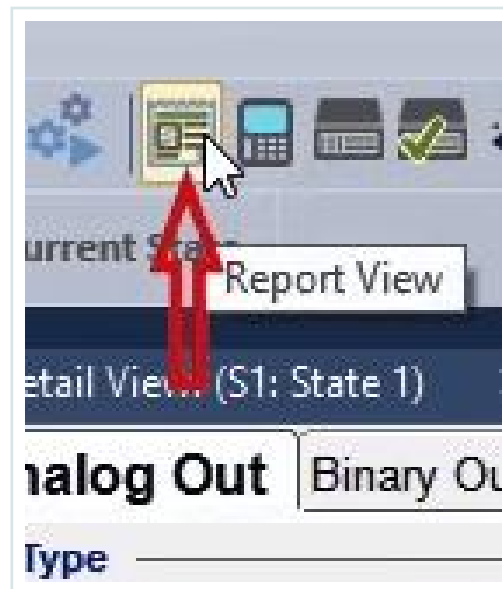


Figure 4

Click on the "Number of Decimal Places Setting" to open its page. In this page you will find the names of the quantities in the "Parameters Name". You will find the units of every quantity written in the "Absolute Unit" block and they can be changed. The "Absolute Eng. Factor" shows a Number of meaningful figures, for example, if you enter the number 545569 in the "Sample Value" and enter the number 3 in the "Absolute Eng. Factor" block, the program shows 546K Ω which is also displayed in the "Absolute Display" block. If you enter the number 2 in this block, the number displayed in the "Absolute Display" block is 550.00K Ω .

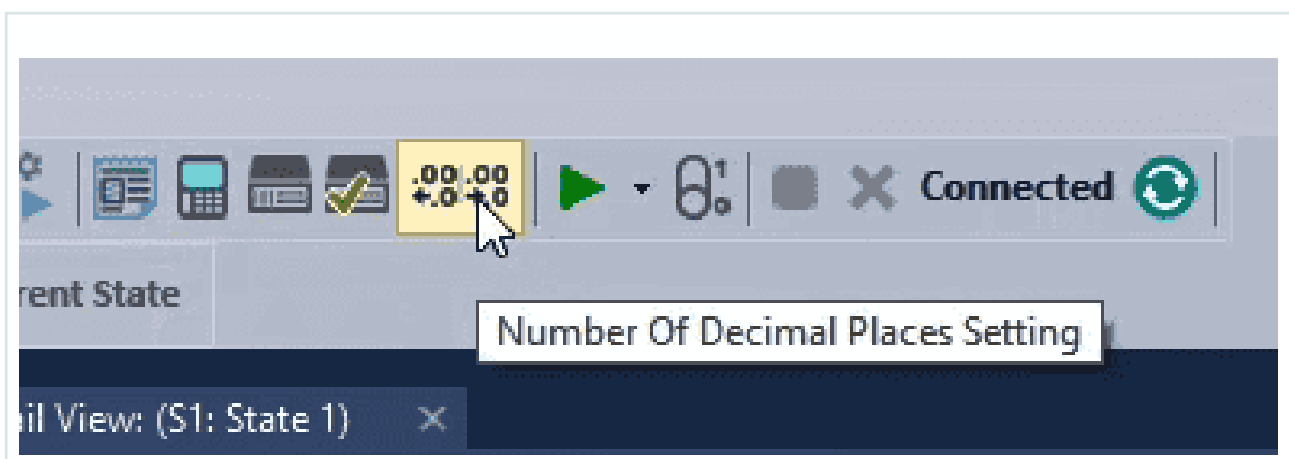


Figure 5

Number of Decimal Places Settings									
Number of Decimal Places									
Sample Value:	123.4567								
Parameter Name	Relative Unit	Relative Accuracy	Relative Eng. Factor	Relative Display	Relative List	Relative Accuracy	Relative Eng. Factor	Relative Display	Relative Display
Resistance	Ω			123.5					
Inductance	H			123.5					
Capacitance	F			123.5					
Power	W			123.5					
Voltage	V			123.5					
Current	A			123.5					
Frequency	Hz			123.5					
Temperature	$^{\circ}\text{C}$			123.5					
Pressure	Pa			123.5					
Force	N			123.5					
Energy	J			123.5					
Power Density	W/m ²			123.5					
Energy Density	J/m ³			123.5					
Mass	kg			123.5					
Volume	m ³			123.5					
Length	m			123.5					
Area	m ²			123.5					
Time	s			123.5					
Angle	$^{\circ}$			123.5					
Angular Velocity	rad/s			123.5					
Angular Acceleration	rad/s ²			123.5					
Linear Velocity	m/s			123.5					
Linear Acceleration	m/s ²			123.5					
Mass Flow Rate	kg/s			123.5					
Volume Flow Rate	m ³ /s			123.5					
Heat Flow Rate	W			123.5					
Power Flow Rate	W			123.5					
Energy Flow Rate	J/s			123.5					
Force Flow Rate	N			123.5					
Pressure Flow Rate	Pa			123.5					
Temperature Flow Rate	$^{\circ}\text{C}$			123.5					
Concentration Flow Rate	mol/m ³			123.5					
Mass Flow Rate	kg/s			123.5					
Volume Flow Rate	m ³ /s			123.5					
Heat Flow Rate	W			123.5					
Power Flow Rate	W			123.5					
Energy Flow Rate	J/s			123.5					
Force Flow Rate	N			123.5					
Pressure Flow Rate	Pa			123.5					
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Power Flow Rate	W			123.5					
Energy Flow Rate	J/s			123.5					
Force Flow Rate	N			123.5					
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Power Flow Rate	W			123.5					
Energy Flow Rate	J/s			123.5					
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Power Flow Rate	W			123.5					
Energy Flow Rate	J/s			123.5					
Force Flow Rate	N			123.5					
Pressure Flow Rate	Pa			123.5					
Temperature Flow Rate	$^{\circ}\text{C}$			123.5					
Concentration Flow Rate	mol/m ³			123.5					
Mass Flow Rate	kg/s			123.5					
Volume Flow Rate	m ³ /s			123.5					

Figure 6

"Absolute Accuracy" block shows the number of decimal fractions rounded up. For example, if you enter the number 5.235 and enter the number 2 in the "Absolute Accuracy" block, the final number is 5.2.

Absolute Accuracy	
	8
	8
	8
	8
	8
	8
	8

Figure 7

Number of Decimal Places					
Sample Value:		5.235			
	Parameter Name	Absolute Unit	Absolute Accuracy	Absolute Eng. Factor	Absolute Display
	Impedance	Ω	2	2	5.2 Ω
►	Inverse Impedance	u	8	4	5.235
	Impedance Percent	%	8	4	5.235 %
	Inductance	H	8	4	5.235 H

Figure 8

Now, in this case, if you enter the number 5 in "Absolute Eng. Factor", the number 5.2400 is displayed in the "Absolute Display" which shows 5 meaningful figures that the last two digits are rounded up corresponding to the "Absolute Accuracy" block.

Absolute Eng. Factor	Absolute Display
5	5.2400 Ω
4	5.240 Ω
4	5.235 %
4	5.235 H
4	5.235 F

Figure 9

The blocks "Relative Accuracy", "Relative Unit", "Relative Eng. Factor" and "Relative Display" also have the same functions but only for relative values. For example, if the voltage unit in "Absolute Unit" is VATR and in the "Relative Unit" is HYU, clicking on "OK" shows that the voltage unit is changed and changing the mode from "Absolute" to "Relative" has also changed its unit.

	Parameter Name	Absolute Unit	Absolute Accuracy	Absolute Eng. Factor	Absolute Display	Relative Unit	Relative Accuracy	Relative Eng. Factor	Relative Display
	Impedance	Ω	2	5	5.2400 Ω				
	Inverse Impedance	μ	8	4	5.235 μ				
	Impedance Percent	%	8	4	5.235 %				
	Inductance	H	8	4	5.235 H				
	Capacitance	F	8	4	5.235 F				
►	Voltage	VATR	8	4	5.235 VATR	HYU	3	0	5.235 Vn
	Current	A	8	4	5.235 A	In	3	0	5.235 In
	Current Differential	In	3	0	5.235 In				
	Current Overcurrent	Iref	3	0	5.235 Iref				
	Current Prefault Overcurrent	IFault	2	0	5.24 IFault				

Figure 10

Table View		S1		Normal	
		General: Direct			
Name	State 1				
V L1-E: V L1-E	63.51 VATR	0.00 °	50.00 Hz		
V L2-E: V L2-E	63.51 VATR	-120.00 °	50.00 Hz		
V L3-E: V L3-E	63.51 VATR	120.00 °	50.00 Hz		
I L1: I L1	1.000 Min: -76.21 VATR, Max: 76.21 VATR				
I L2: I L2	1.000 Shown Value: 63.51 VATR, MainValue: 63.5085296108588 VATR				
I L3: I L3	1.000 A	120.00 °	50.00 Hz		
Bin. Out	B1. ☒	B2. ☒	B3. ☒	B4. ☒	
Trigger	☒	☐	☐	☐	1.000 s
Type	Normal				
Comment					

Figure 11

[jg1]Determining_Decimal_Numbers_Part1