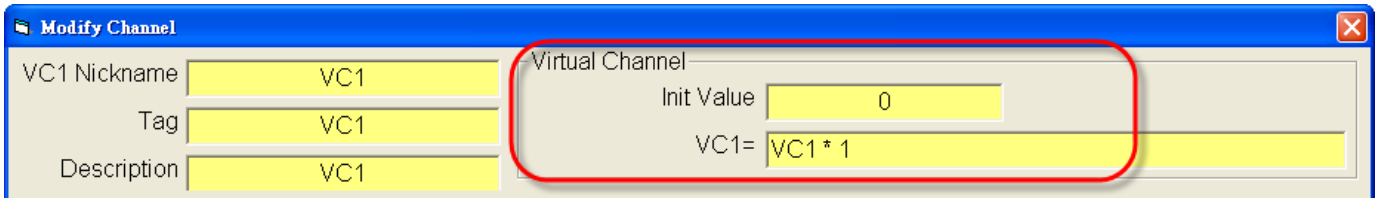
How to use VC to do operations?

Applied to:

Platform	*OS Version*
PC	*Windows 98/NT/2000/XP/Vista*

You can operate the data into the virtual channel by channel tag name easily. Such as total, average, sum, or other operations.

I. Virtual Channel Operation Expression



- Virtual Channels are operational. You can use the tag names to operate the virtual channel value.

  Examples:

  VC0 = (AI_1 + AI_2) / 2
  VC1 = AI_3 ^ 2 * 100
  VC2 = DO_0 And DO_1
  VC3 = Abs(AI_6)

- Operators

Plus	+
Minus	−
Multiply	*
Divide	/
Power	^
Logic operators	Not, And, Or, Xor....

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- Usable function (You can use these function in VB Script)

Sin(*number***)**	Return the sine of a specified number (radian)
Cos(*number***)**	Return the cosine of a specified number (radian)
Tan(*number***)**	Return the tangent of a specified number (radian)
Atn(*number***)**	Return the arctangent of a specified number (radian)
Abs(*number***)**	Return the absolute value of a specified number
Sqr(*number***)**	Return the square root of a specified number (radian)

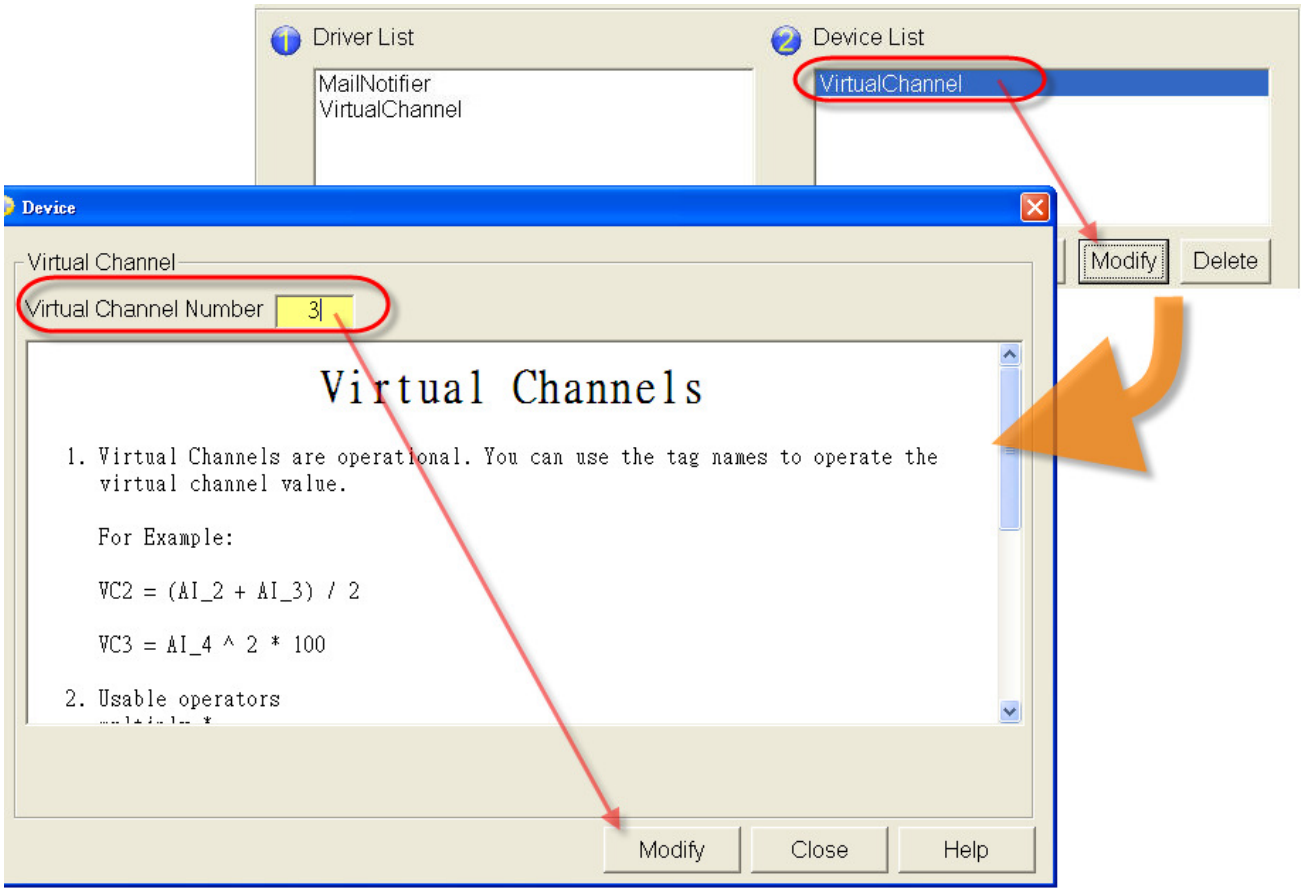
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II. Virtual Channel Demo – How to do the sum

Step1：Open **EZ Data Logger**, and then from the button list click the **Group Setup** button.

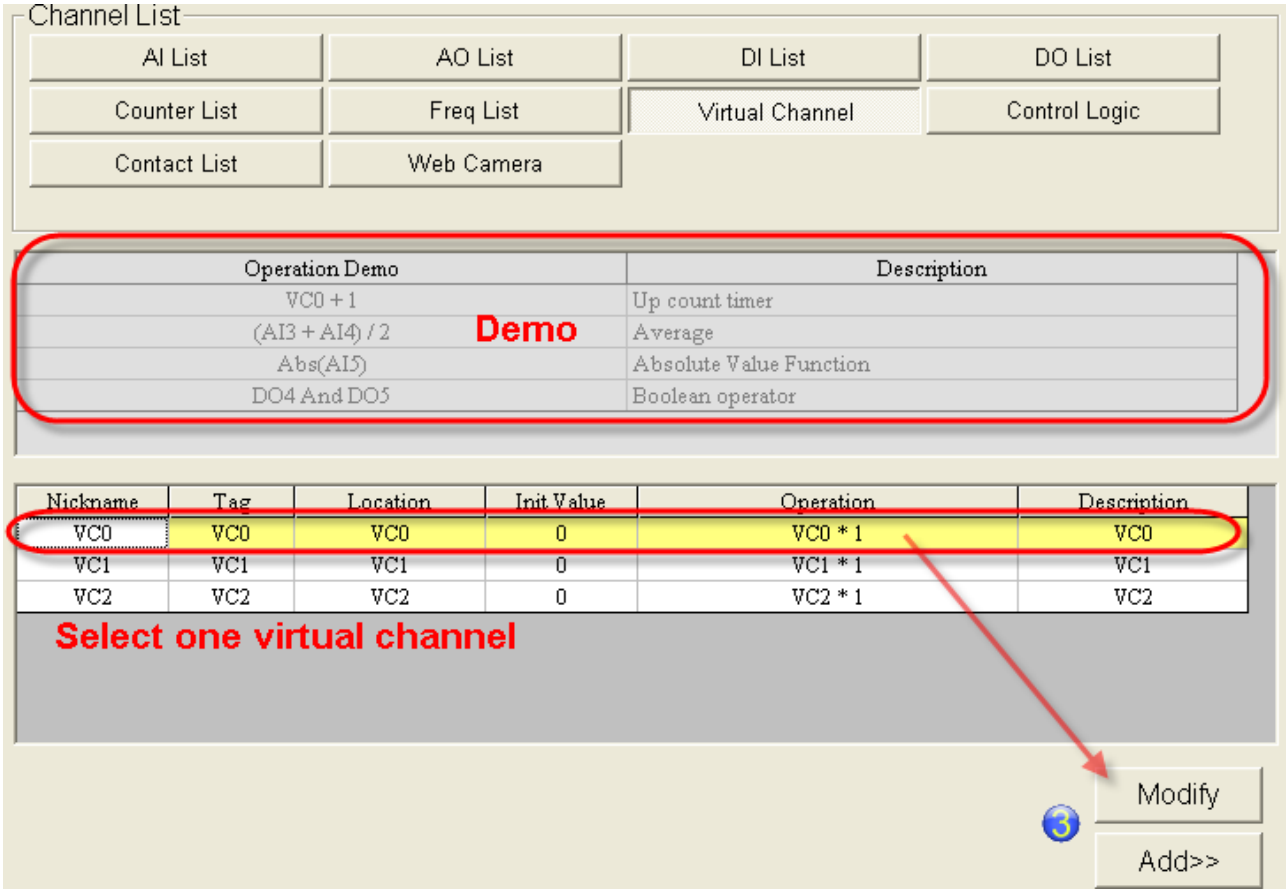


Step2：From “Device List” select **VirtualChannel**, and then click **Modify** button→ In the popup “Device” form, type the **Virtual Channel Number** (up to 256 channels), and then click the **Modify** button.

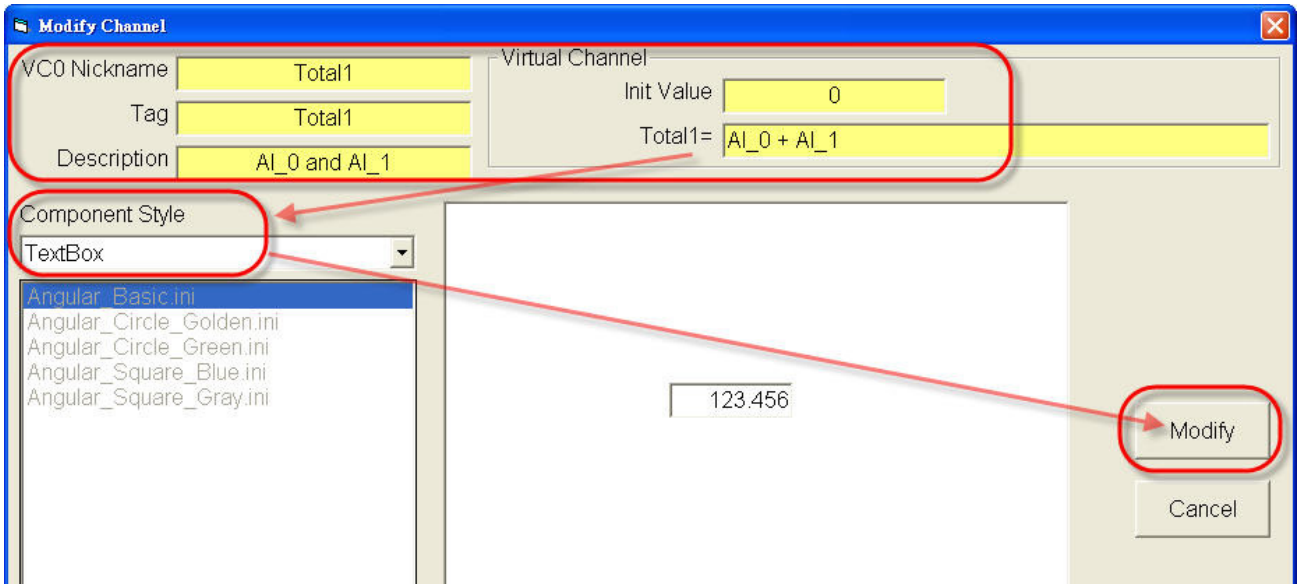


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Step3：Select one virtual channel, and then click the **Modify** button.

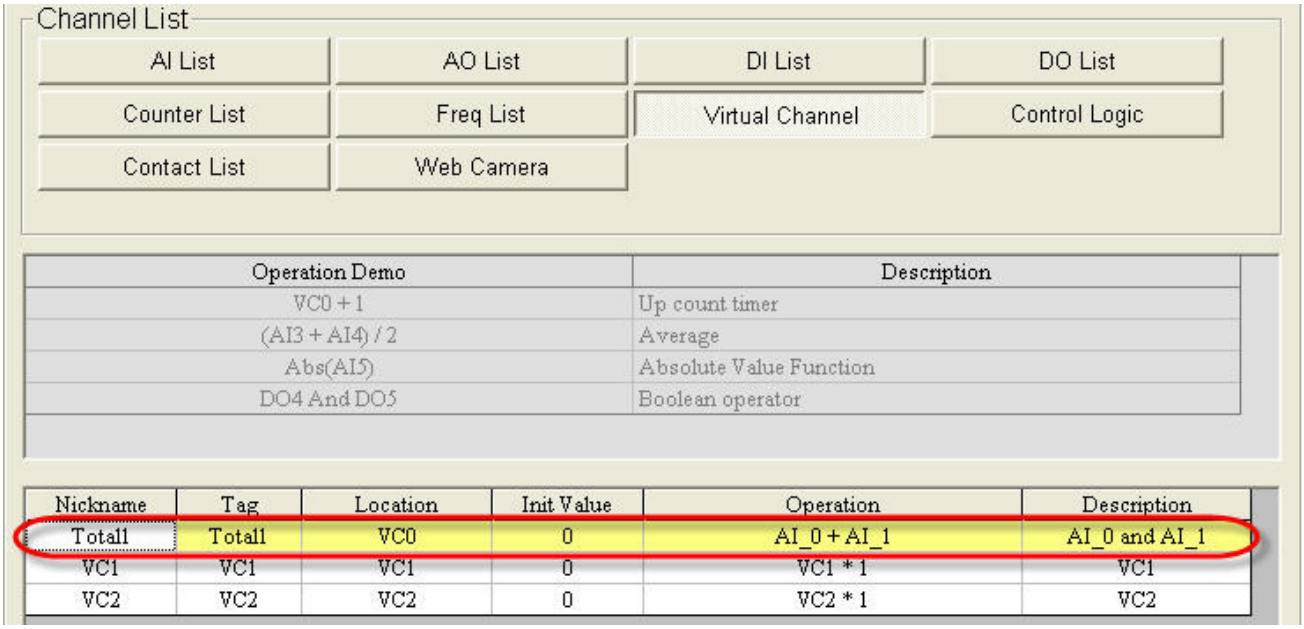


Step4：Edit **Nickname**、**Tag** name、**Description** of VC channel→ Set **Init Value** = 0, and set the operation: **Total1 = AI_0 + AI_1** → Select **component style**→ Click the **Modify** button.

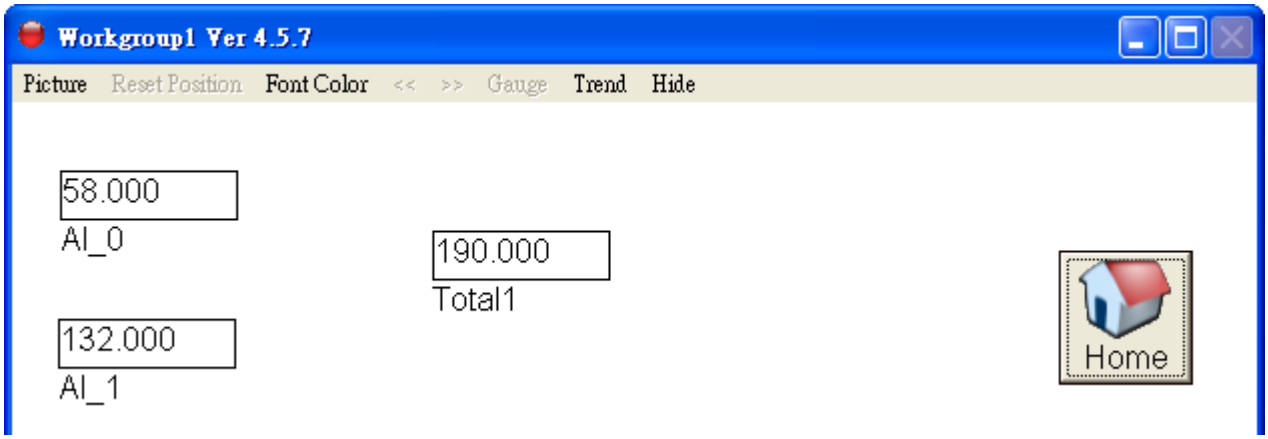


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Step5：The setting result of the selected virtual channel is as below picture ↓



Step6：Execute the project, and then open **Layout**. You can see that the Total1 value is the sum of AI_0 and AI_1.



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