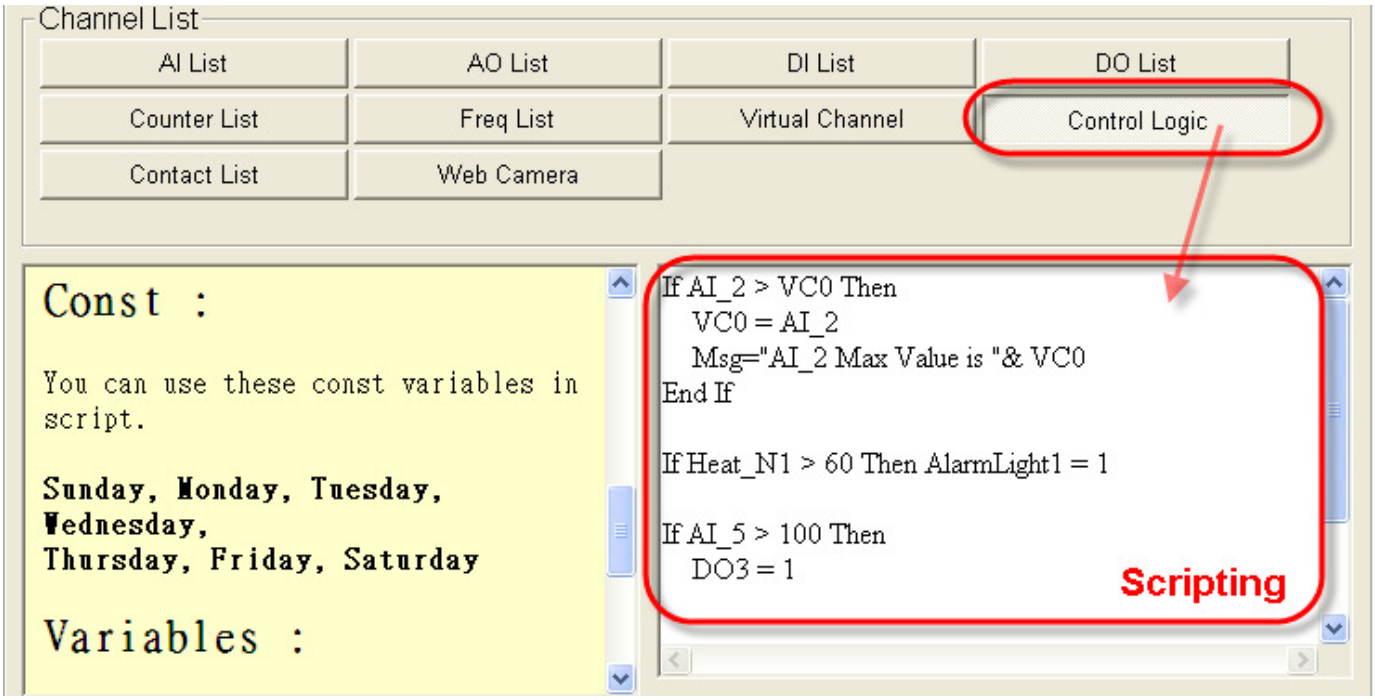
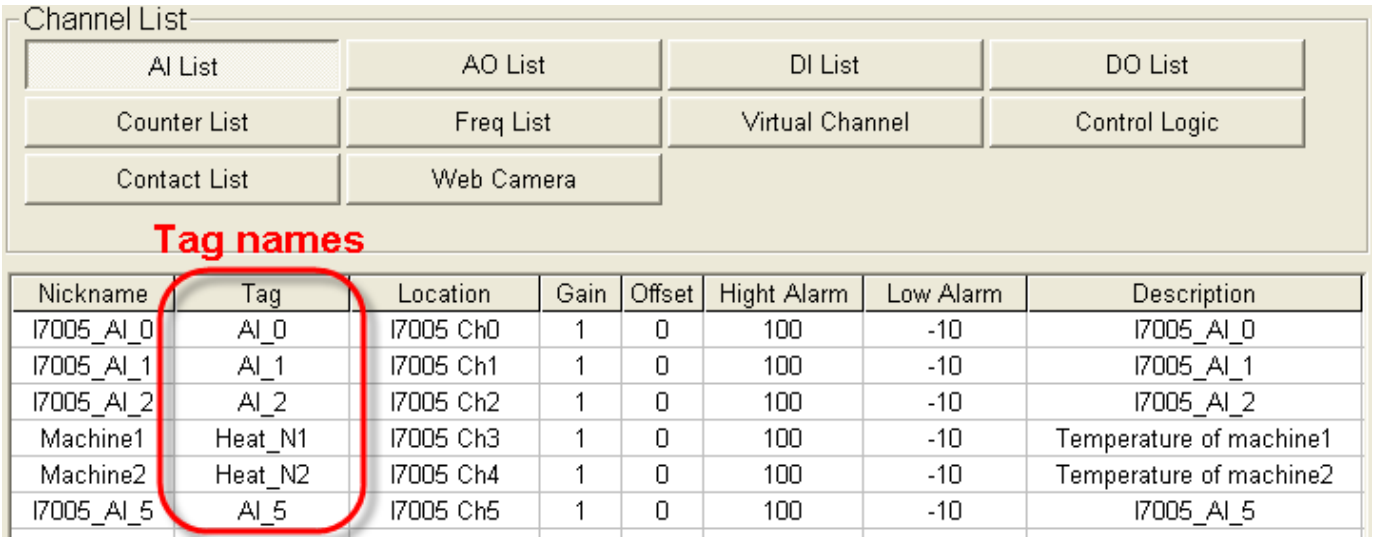
How to set the DO alarm?

Applied to:

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

EZ Data Logger supports the “Control Logic” function. Control Logic uses the VB script. You can edit the script to set the output values or to calculate data into virtual channels. You can get/set the channel values by channel tag names.





Nickname	Tag	Location	Gain	Offset	Hight Alarm	Low Alarm	Description
I7005_AI_0	AI_0	I7005 Ch0	1	0	100	-10	I7005_AI_0
I7005_AI_1	AI_1	I7005 Ch1	1	0	100	-10	I7005_AI_1
I7005_AI_2	AI_2	I7005 Ch2	1	0	100	-10	I7005_AI_2
Machine1	Heat_N1	I7005 Ch3	1	0	100	-10	Temperature of machine1
Machine2	Heat_N2	I7005 Ch4	1	0	100	-10	Temperature of machine2
I7005_AI_5	AI_5	I7005 Ch5	1	0	100	-10	I7005_AI_5

I. How to use VBScript to do Control Logic

1. Statements：

You can use “Conditional Statements” or “Looping statements” in script. The below form demonstrate how to use the statements.

	Conditional Statements	**Lopping Statements**
Example	**If...Then...Else**	**For...Next...**
Explanation	Perform different actions for different decisions.	Run the same block of code a specified number of times.

Code	**If** condition1 **Then**
	[statementblock-1]
	ElseIf condition2 **Then**
	[statementblock-2]] …
	Else
	[statementblock-n]]
	End If
		For counter **=** start **To** End [**Step** step]
		[statements]
		[Exit For]
		[statements]
		Next

2. Variables：

You can use these updated variables in script.

iYear	Year
iMonth	Month
iDay	Date
iHour	Hour
iMinute	Minute
iSecond	Second
iWeekDay	Weekday (Sunday = 1, Monday = 2, Tuesday = 3……Saturday = 7)
Now	Return the current system time
Timer	The Timer function returns the number of seconds since 12：00 AM
Msg	If Msg is not null, it will be print in the main warning text.

3. Const：

You can use these const variables in script.

Const
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday

4. Functions：

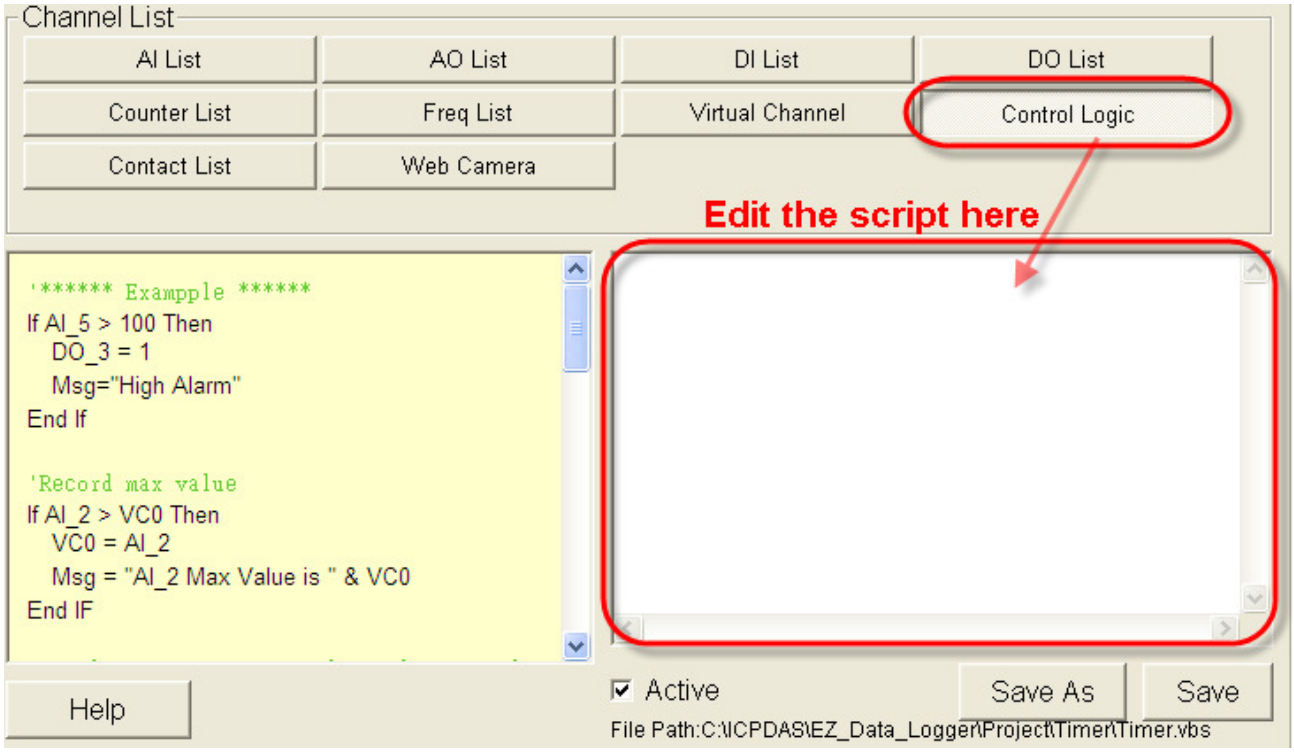
You can use these functions in script.

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
Abs(*number***)**	Return the absolute values of a specified number
Sqr(*number***)**	Return the square root of a specified number

II. How To Set The DO Alarm

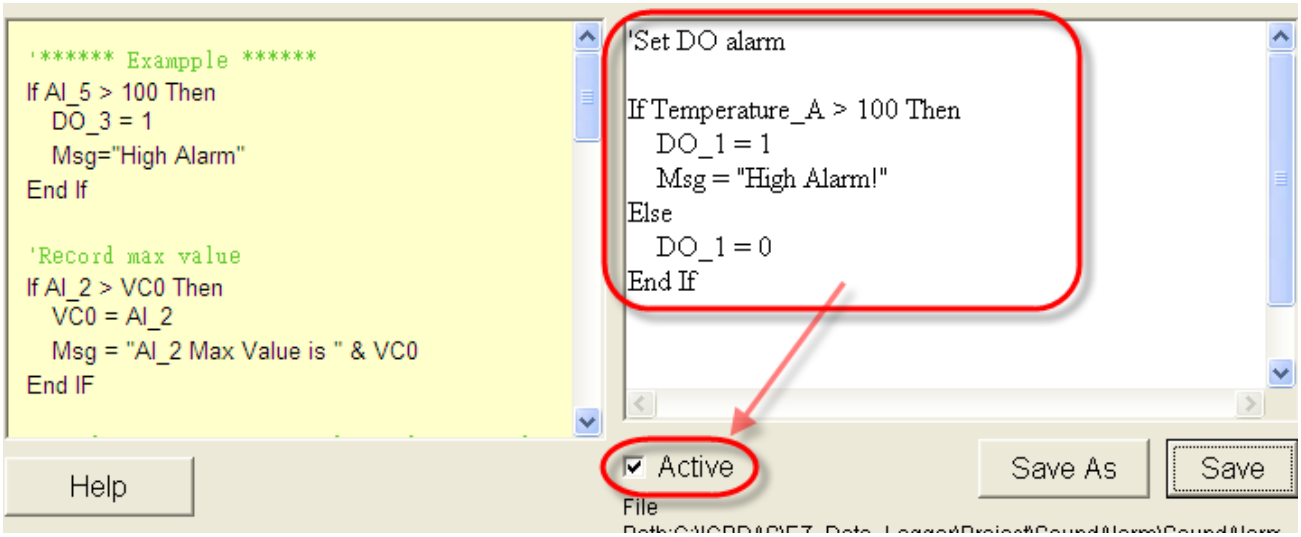
Step1：Open **EZ Data Logger**, and then from the button list click the **Group Setup** button.

Step2：From the “Channel List” click the **Control Logic** button to edit script.

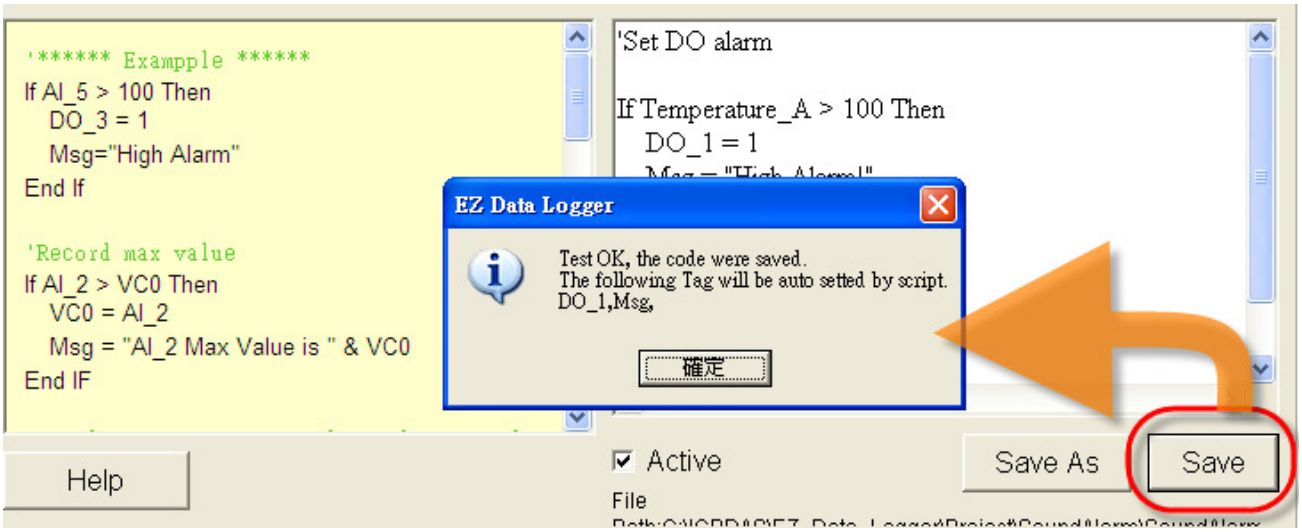


Step3：Edit the script.

Use “**If…Then…Else**” statements to set DO_1 as ON and set the message “High Alarm” to the main warning text when Temperature_A value is over 100→ Tick **Active** to enable the control logic function**.**



Step4：Click the **Save** button to save the script setting into your project. Next time the control logic will load the setting you saved, and you do not have to re-edit. If your setting is correct, the popup window will show you that it is correct. Otherwise it will show you that your setting is wrong, and you can not save your editing.



Tips and warnings：

If you active the control logic, EZ Data Logger will set the AO/DO automatically. And when you start to run, the mouse control of the layout project which is used in script will be disabled. If you want to stop the automatic control, you can follow the below steps to select control mode.

Step1：After executing the project in EZ Data Logger, click the **Layout** option of workgroup.

Step2：Left-click the layout project→ Select **Manual**→ Use the mouse to set DO value.