

Classification	Control Logic Applied FAQ on EZ Data Logger				No.	3-012-02	
Author	Amber	Version	1.0.0	Date	2012/06/08	Page	1/6

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.

Channel List

AI List	AO List	DI List	DO List
Counter List	Freq List	Virtual Channel	Control Logic
Contact List	Web Camera		

Const :

You can use these const variables in script.

Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday

Variables :

```

If AI_2 > VC0 Then
  VC0 = AI_2
  Msg="AI_2 Max Value is "& VC0
End If

If Heat_N1 > 60 Then AlarmLight1 = 1

If AI_5 > 100 Then
  DO3 = 1

```

Scripting

Channel List

AI List	AO List	DI List	DO List
Counter List	Freq List	Virtual Channel	Control Logic
Contact List	Web Camera		

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

Classification	Control Logic Applied FAQ on EZ Data Logger				No.	3-012-02	
Author	Amber	Version	1.0.0	Date	2012/06/08	Page	2/6

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	Looping 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.

Classification	Control Logic Applied FAQ on EZ Data Logger				No.	3-012-02	
Author	Amber	Version	1.0.0	Date	2012/06/08	Page	3/6

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 (<i>number</i>)	Return the sine of a specified number (radian)
Cos (<i>number</i>)	Return the cosine of a specified number (radian)
Tan (<i>number</i>)	Return the tangent of a specified number (radian)
Atn (<i>number</i>)	Return the arctangent of a specified number
Abs (<i>number</i>)	Return the absolute values of a specified number
Sqr (<i>number</i>)	Return the square root of a specified number

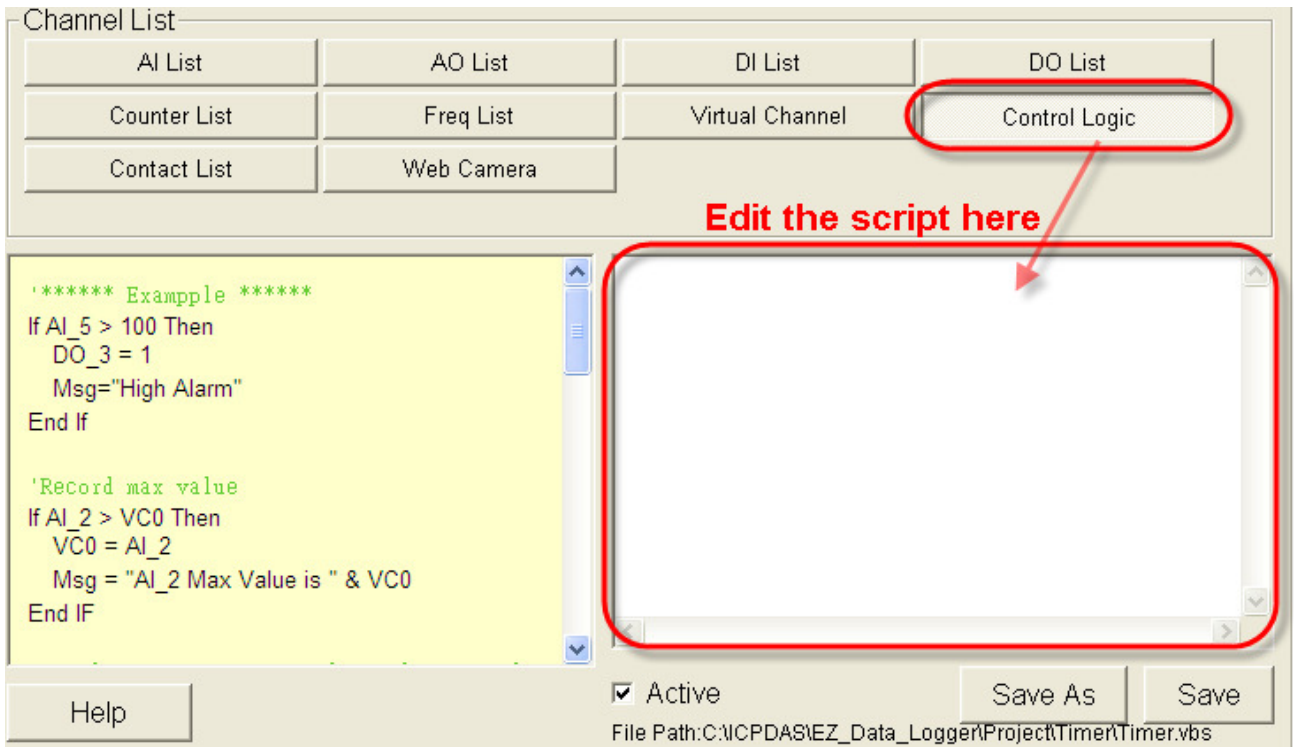
Classification	Control Logic Applied FAQ on EZ Data Logger				No.	3-012-02	
Author	Amber	Version	1.0.0	Date	2012/06/08	Page	4/6

II. How To Set The DO Alarm

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



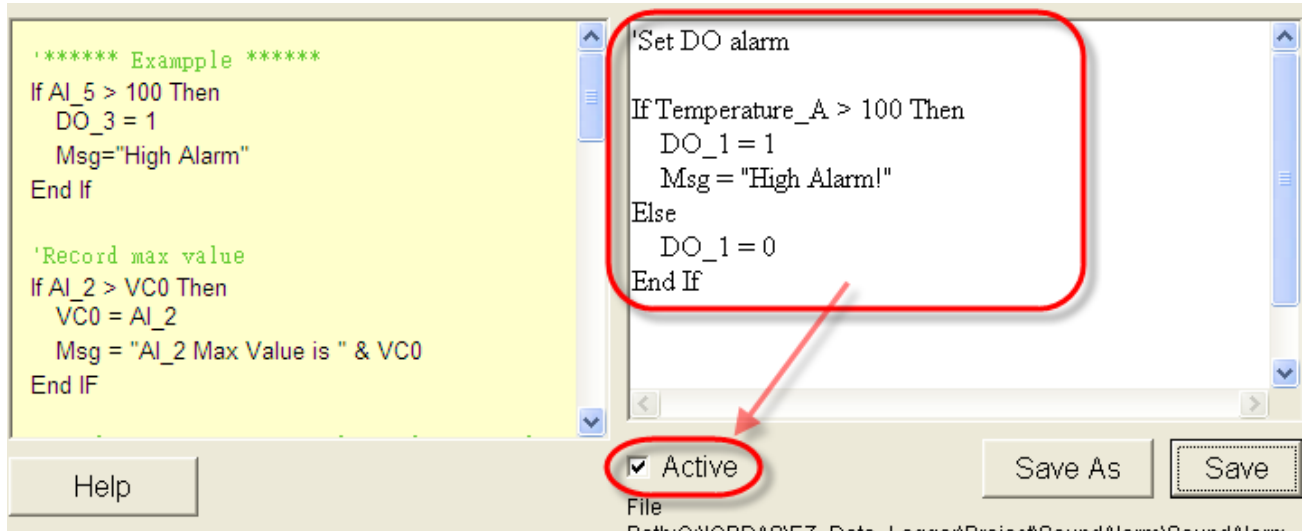
Step2 : From the “Channel List” click the **Control Logic** button to edit script.



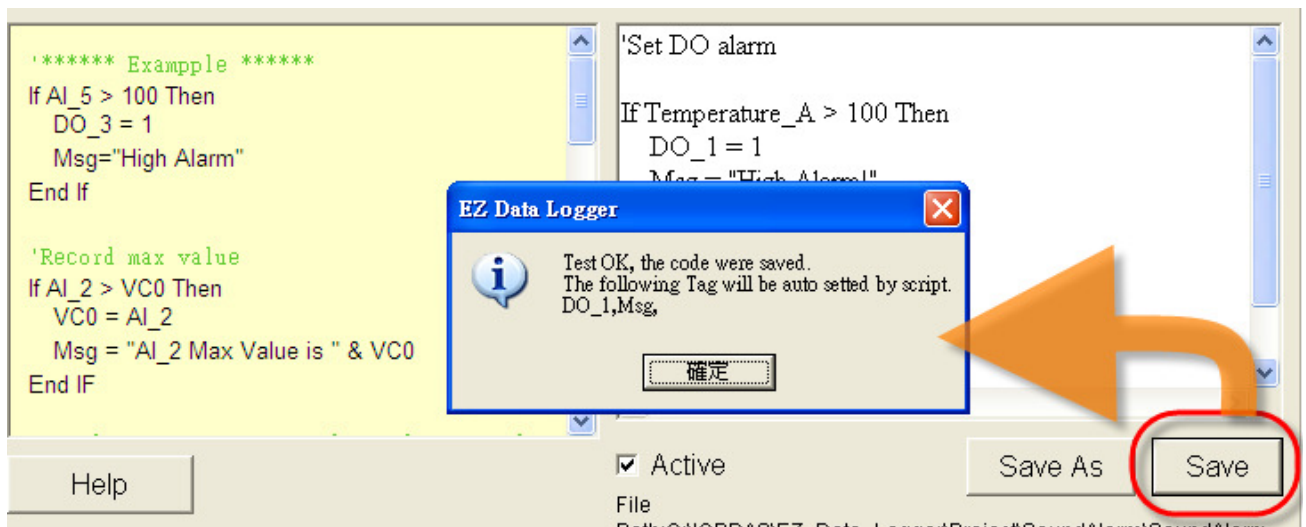
Classification	Control Logic Applied FAQ on EZ Data Logger				No.	3-012-02	
Author	Amber	Version	1.0.0	Date	2012/06/08	Page	5/6

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.



Classification	Control Logic Applied FAQ on EZ Data Logger				No.	3-012-02	
Author	Amber	Version	1.0.0	Date	2012/06/08	Page	6/6



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.

The screenshot shows the 'Workgroup1 Ver 4.5.2' application window. The main interface displays a 3D model of a greenhouse and a temperature gauge labeled 'Temperature_A' with a scale from 0 to 100. A 'Safe' button for 'DO_1' is highlighted with a red circle. An orange arrow points from this button to a 'Set Output Value' dialog box. The dialog box contains the following information:

- Nickname: DO_1
- Tag: DO_1
- Description: DO_1

At the bottom of the dialog box, there are three buttons: 'On', 'Off', and 'Inverse'. Below these buttons are two radio buttons: 'Manual' (which is selected) and 'Auto'. A red circle highlights the 'Manual' radio button, and a red arrow points to it from the 'Safe' button in the background.