	Classification Virtual Channel Applied FAQ on EZ Data Logger No.						2-010-02			
Autho	r	Amber	AmberVersion1.0.1Date2013/04/01				1/5			
How	/ to us	e VC t	o do operatior	ns?						
A	pplied to:	to:								
	F	Platform	OS Version							
		FC	V	/11/00/05/96/1	<u> 172000/XF/1</u>	/ISIA				
Yo	ou can op	erate the	data into the virtual cha	annel by cha	annel tag nan	ne easily.	Such as			
otal, a	iverage, s	sum, or oth	er operations.							
. <u>V</u> i	irtual C	hannel C	Operation Express	ion						
3 Modify	y Channel									
VC1 Ni	ckname	VC1	Virtual Channel	Value	0					
D	Tag 📃	VC1		VC1= VC1 * 1						
Des		VCI								
	xamples: C0 = (AI_ C1 = AI_3 C2 = DO_ C3 = Abs perators	1 + AI_2) } ^ 2 * 100 _0 And DO (AI_6)	′ 2 1							
	xamples: C0 = (AI_ C1 = AI_3 C2 = DO_ C3 = Abs perators	1 + AI_2) / 3 ^ 2 * 100 0 And DO (AI_6)	′ 2 1							
	xamples: C0 = (AI_ C1 = AI_3 C2 = DO_ C3 = Abs perators Plus	1 + AI_2) / 3 ^ 2 * 100 0 And DO (AI_6)	′2 9_1 +							
	$xamples: C0 = (AI_C1 = AI_C3) = DO_C3 = Abs$ $perators$ $Plus$ $Minus$	1 + AI_2) / 3 ^ 2 * 100 0 And DO (AI_6)	/ 2 1 							
	xamples: $C0 = (AI_ C1 = AI_3 C2 = DO_ C3 = Abs perators Plus Minus Multiply$	1 + AI_2) / 3 ^ 2 * 100 0 And DO (AI_6)	/ 2 9_1 + − *							
	xamples: C0 = (AI_ C1 = AI_3 C2 = DO_ C3 = Abs perators Plus Minus Multiply Divide	1 + AI_2) / 3 ^ 2 * 100 0 And DO (AI_6)	/ 2 9_1 + - ∗ ∕							
	xamples: $C0 = (AI_C) = AI_C$ $C1 = AI_C$ $C2 = DO_C$ C3 = Abs perators Plus Minus Multiply Divide Power	1 + AI_2) / 3 ^ 2 * 100 0 And DO (AI_6)	⁷ 2 <u>−</u> * ∕ ^							

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

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

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		L			-			
Step3 : Sele	ect one virte	ual channel, a	and then c	lick the Mod	dify button.			
Channel L	.ist							
1	Al List	AOL	List	DI List		DO List		
Cou	Counter List		Freq List		Virtual Channel		Control Logic	
Cor	Contact List)Mah Camara				<u> </u>	
			amera					
<u></u>	Opera	ation Demo		The const times	Descriptio	on		
	(AI3	+AI4)/2	Demo	Average				
	At	bs(AI5)		Absolute Value I	Function			
	DO4	And DO5		Boolean operato	r			
Nickname	Tag	Location	Init Value		Operation	De	scription	
	VCO	VC0	0		VC0 * 1		VCO	
VC1 VC2	VCI VC2	VC1 VC2	0		VC1*1 VC2*1		VC1 VC2	
							Modify	
						U	Add>>	
Step4 : Edit et the operatio	Nickname on: Total1	e	 Descrip 1 → Select Virtual Channel 	otion of VC et compone	channel→ So nt style→ Cl	et Init Val lick the M	ue = 0, and odify butto	
	ag	Total1		Init Value Total1= Al_0 +	0 AI_1			
TextBox		-						

VC0 Nickname Tag Description	Total1 Total1 Al_0 and Al_1	Virtual Channel Init Value Total1= Al_0 +	0 Al_1	
Component Style TextBox Angular_Circle_Gol Angular_Circle_Gol Angular_Circle_Gre Angular_Square_Bl Angular_Square_Gr	den.ini en.ini ue.ini ray.ini	123.456		Modify Cancel
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Step	5: The s	setting res	ult of the sele	cted virtu	al channel is	s as below pi	cture ↓	
	Channer L 4	N List	AOL	ist	DI Li	st	DO List	1
	Counter List		Freq l	List	Virtual Channel		Control Log	ic
	Cor	itact List	Web Ca	amera				
	Onerstic		tion Demo			Descripti	on	
		V	C0+1		Up count timer			
		(AI3	+ AI4) / 2		Average			
		Al	os(AI5)		Absolute Value Function Boolean operator			
		DO4	And DO5					
	Nickname	Tag	Location	Init Value	1 0	Operation	Desc	rintion
6	Totall	Totall	VCO	0	A	0+AI 1	AI 0 a	nd AI 1
	VC1	VC1	VC1	0		VC1 * 1	v	C1
		0000000000						1202

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

🖶 Workgroup1 Ver 4.5.7		
Picture Reset Position Font C	Color << >> Gauge Trend Hide	
58.000 AI_0 132.000	190.000 Total1	
AI_1		Home