UniOP with the Demo Controller

The Demo Controller is a PLC simulation program. It can be used to run projects in the panel as if the panel were actually connected to a Siemens Simatic S5 PLC. This driver can be selected in the Designer for Windows software package by selecting *Change Controller Driver* from the *Project* menu and selecting *Demo Controller*. When using this driver, there is certain information that will prove useful when writing a project file. This information is listed below.

The reserved data area is located in Data Block 10. The program is based on the Simatic S5, but it is not a complete Simatic S5 PLC. The data words that are simulating the counters and counter parameters are limited only to Data Block 11 and Data Block 20.

NOTE: Counter does not refer to PLC counters, but only to memory locations used as software counters.

The other data format selections that can be selected from within the define field dialog box can not be used for a project. Using these areas will yield erroneous results. In other words, when making a project for use with this program, it is advisable to utilize only the data words in the following table and not the counter, timer, or float data format options.

Siemens PLC Simulator Data Block 11

OFFSET	DATA FORMAT	FUNCTION	DEFAULT
Data word 0	word(bin)	counter 0, up counter, period in DW9, max in DW5	
Data word 2	word(bin)	counter 2, down counter, F1 enables and disables	
Data word 3	word(bin)	counter 3, up counter	
Data word 5	word(bin)	counter maximum for counter 0	300
Data word 6	word(bin)	set point 1 for counter 0, low	32
Data word 7	word(bin)	set point 2 for counter 0, high	100
Data word 8	word(bin)	bit 0 < set point 1 bit 1 > set point 2	
Data word 9	word(bin)	period kt format	1800
Data word 12	word(bin)	free running counter	
Data word 13	word(bin)	period counter 4	
Data word 14	word(bin	counter 4, up counter	2500
Data word 15	word(bin)	maximum count, counter 4	4

Siemens PLC Simulator Data Block 20

Data word 0- Data word 31	word(bin)	Counters incremented each second in the range 0-999. They all contain the same value

Siemens PLC Simulator Data Block 21

Data word 0- Data word 31	word(bin)	Free use word. They all contain 0 as default value.

Special Features

F1-F8 : When pressing a key on the UniOp the corresponding LED will light, and DB10 will give a PLC output.

F1 : When pressed enables count on DB11, DW2. When pressed again, disables counting.

All of these counters have defaults in their programming. These defaults appear when the project is initially downloaded or the panel is powered down and restarted. The defaults also appear whenever the panel is put in Configuration Mode and then put back in to Operation Mode. The counter parameter words can be made read/write, so the variables may be changed. This allows the user to customize the project file to better suit their individual application.

Technical assistance may be obtained :
In North America EXOR at 1-513-874-4665
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