

PLC210 Lab 7: Sequencer Output Instruction

Download the project Compact_Module_4_Ex2_Seq.ACD, go Online and put the CompactLogix into the Run mode to do the following lab.

The I/O tag names in this lab may need to be changed to match the addresses on your hardware trainer.

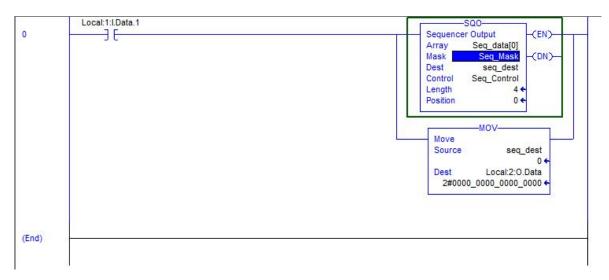


Figure 1-A. Sequencer Output Instruction.

What Data Type is the Seq_Control tag?
 List the tag Name and Data Types that are included in the Seq_Control tag

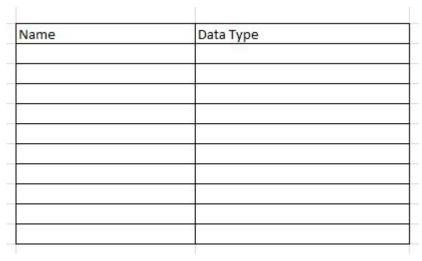


Table 1-A



2.	How many tags comprise the array Seq_data?	_•
	What are the index number values?	
	What is the data type for the Seq_data array?	
3. V	What value is the Seq_Mask tag?	
V	What is the binary Style for the Seq_Mask tag?	
F	Hint: Monitor the Seq_Mask tag.	
	Left click the Style cell for the Seq_Mask tag	
	Click the drop-down arrow and choose Binary	

Scope: ¶ cl_seq						
Name △	Value ←	Force Mask 🔸	Style	Data Type		
⊕-Local:1:I	{}	{}		AB:1769_DI16:I:0		
	{}	{}		AB:1769_D016:C:0		
	{}	{}		AB:1769_D016:I:0		
+- Local:2:0	{}	{}		AB:1769_D016:		
— Seq_Control	{}	{}		CONTROL		
+-Seq_Control.LEN	4		Decimal	DINT		
+-Seq_Control.POS	0		Decimal	DINT		
—Seq_Control.EN	0		Decimal	BOOL		
—Seq_Control.EU	0		Decimal	BOOL		
—Seq_Control.DN	0		Decimal	BOOL		
—Seq_Control.EM	0		Decimal	BOOL		
—Seq_Control.ER	0		Decimal	BOOL		
—Seq_Control.UL	0		Decimal	BOOL		
—Seq_Control.IN	0		Decimal	BOOL		
Seq_Control.FD	0		Decimal	BOOL		
⊞-Seq_data	{}	{}	Decimal	DINT[5]		
the seq_dest the seq_dest the seq_dest the seq_dest the seq_dest the seq_dest the seq_dest the seq_dest the seq_dest	0		Decimal	DINT		
► H-Seq_Mask	255		Decimal ▼	DINT		
			Binary Octal Decimal Hex ASCII			

Figure 2-A. Changing the data style.



4.	Press PB1 on the demo unit.
	Which outputs turn on?
	Explain:
	Hint: Compare position value Seq_data array index number
	Change the values in the Seq_data array to Binary Style
4.	Keep pressing PB1 on demo unit and view array data and position value to determine seq_data tag value.
	How many positions are programed in the sequencer?
5.	Once the sequence is done, what is the next position value when PB1 is pressed?
6.	What causes the demo pilot lights to turn On and Off? Explain:



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