



# Manitou Systems Inc. Matrixx Enhanced - Control Scheme

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This chart defines a typical, common control scheme used on the **Matrixx Enhanced** switching products. A D-sub 15 is the standard control I/O connector used with models that switch up to 7 outputs + 2 inputs. A D-sub 25 connector will be used on models that switch 9 + outputs. This scheme will enable OEM customers to design a common system PLC/computer control + software to drive the **Matrixx** products.

D-Sub PIN →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
# of OUTPUTS ↓																										
2	Out 1 RF	Out 2 RF			Comm Ground	Out 1 DC	Out 2 DC																			
3	Out 1 RF	Out 2 RF	Out 3 RF		Comm Ground	Out 1 DC	Out 2 DC	Out 3 DC																		
4	Out 1 RF	Out 2 RF	Out 3 RF	Out 4 RF	Comm Ground	Out 1 DC	Out 2 DC	Out 3 DC	Out 4 DC																	
5	Out 1 RF	Out 2 RF	Out 3 RF	Out 4 RF	Comm Ground	Out 1 DC	Out 2 DC	Out 3 DC	Out 4 DC	Out 5 RF	Out 5 DC															
6	Out 1 RF	Out 2 RF	Out 3 RF	Out 4 RF	Comm Ground	Out 1 DC	Out 2 DC	Out 3 DC	Out 4 DC	Out 5 RF	Out 5 DC	Out 6 RF	Out 6 DC													
7	Out 1 RF	Out 2 RF	Out 3 RF	Out 4 RF	Comm Ground	Out 1 DC	Out 2 DC	Out 3 DC	Out 4 DC	Out 5 RF	Out 5 DC	Out 6 RF	Out 6 DC	Out 7 RF	Out 7 DC											
8	Out 1 RF	Out 2 RF	Out 3 RF	Out 4 RF	Comm Ground	Out 1 DC	Out 2 DC	Out 3 DC	Out 4 DC	Out 5 RF	Out 5 DC	Out 6 RF	Out 6 DC	Out 7 RF	Out 7 DC	Out 8 RF	Out 8 DC									
9	Out 1 RF	Out 2 RF	Out 3 RF	Out 4 RF	Comm Ground	Out 1 DC	Out 2 DC	Out 3 DC	Out 4 DC	Out 5 RF	Out 5 DC	Out 6 RF	Out 6 DC	Out 7 RF	Out 7 DC	Out 8 RF	Out 8 DC	Out 9 RF	Out 9 DC							
10	Out 1 RF	Out 2 RF	Out 3 RF	Out 4 RF	Comm Ground	Out 1 DC	Out 2 DC	Out 3 DC	Out 4 DC	Out 5 RF	Out 5 DC	Out 6 RF	Out 6 DC	Out 7 RF	Out 7 DC	Out 8 RF	Out 8 DC	Out 9 RF	Out 9 DC	Out 10 RF	Out 10 DC					
11	Out 1 RF	Out 2 RF	Out 3 RF	Out 4 RF	Comm Ground	Out 1 DC	Out 2 DC	Out 3 DC	Out 4 DC	Out 5 RF	Out 5 DC	Out 6 RF	Out 6 DC	Out 7 RF	Out 7 DC	Out 8 RF	Out 8 DC	Out 9 RF	Out 9 DC	Out 10 RF	Out 10 DC	Out 11 RF	Out 11 DC			
12	Out 1 RF	Out 2 RF	Out 3 RF	Out 4 RF	Comm Ground	Out 1 DC	Out 2 DC	Out 3 DC	Out 4 DC	Out 5 RF	Out 5 DC	Out 6 RF	Out 6 DC	Out 7 RF	Out 7 DC	Out 8 RF	Out 8 DC	Out 9 RF	Out 9 DC	Out 10 RF	Out 10 DC	Out 11 RF	Out 11 DC	Out 12 RF	Out 12 DC	