

FLEX I/O Digital DC Output Modules Installation Instructions

Table 3 - Wiring Connections for the 1794-OB32P Module (Continued)
Use with a 1794-TB32 or 1794-TB32S Terminal Base

Output	Output Terminal	Common	Power
For Outputs 0...15, use +V1 and COM1			
+V1 DC power	Power terminals 35, 37, 39, and 41		
COM1 DC Return	Common terminals 36, 38, 40, and 42		
For Outputs 16...31, use +V2 and COM2			
+V2 DC power	Power terminals 43, 45, 47, and 49		
COM2 DC Return	Common terminals 44, 46, 48, and 50		

Configure Your 1794-OB8EP Output Module

Configure your output module by setting bits in the configuration word.

Table 4 - Image Table Memory Map for 1794-OB8EP

Dec	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
Oct	17	16	15	14	13	12	11	10	7	6	5	4	3	2	1	0	
Read	F7	F6	F5	F4	F3	F2	F1	F0	Reserved ⁽¹⁾								
Write	Not used								FR	07	06	05	04	03	02	01	00

0 = Output - 00 corresponds to output 0, 01 corresponds to output 1, and so on.
F = Overflow fault bit - 1 = fault present; 0 = no fault
FR = Fault reset bit, 1 = reset output; 0 = no change

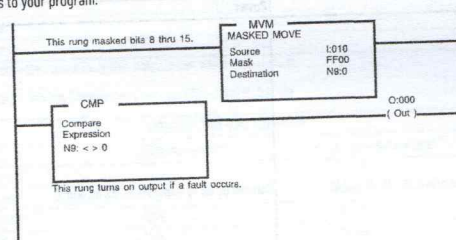
Where:

0 = Output - 00 corresponds to output 0, 01 corresponds to output 1, and so on.
F = Overload fault bit - 1 = fault present; 0 = no fault
FR = Fault reset bit - 1 = reset output; 0 = no change

(1) The unused lower byte in read word 1 floats during operation. Do not use this byte for fault status. See Program the 1794-OB8EP Module.

Program the 1794-OB8EP Module

If your program automatically checks for fault bits, bits 8...15 of read word 1 must be masked. This is a sample program for a module at rack address 1, group 0. Add similar rungs to your program.



Reset a Fault on the 1794-OB8EP - You can reset the faults three ways: Press the fault reset button on the front of the module; or toggle the output reset bit (write word 1, bit 08); or cycle backplane power.

Use the Reset Button on the 1794-OB8EP - When you press the reset button, the fault indicator for the faulted output turns off for about 1.2 s. After the delay, the faulted output attempts to turn on. If the external condition causing the fault is corrected, the output will remain on, the fault indicator is off, and the status indicator is on.

Configure Your 1794-OB8, 1794-OB16, 1794-OB16P, and 1794-OB32P Output Modules

Configure your output module by setting bits in the configuration word (Word 3).

Table 5 - Image Table Memory Map for 1794-OB8, 1794-OB16, 1794-OB16P, and 1794-OB32P

Dec	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
Oct	17	16	15	14	13	12	11	10	7	6	5	4	3	2	1	0
Read	Not used															
Write	015	014	013	012	011	010	009	008	007	006	005	004	003	002	001	000
Write 1794-OB32P only	031	030	029	028	027	026	025	024	023	022	021	020	019	018	017	016

0 = Output - 00 corresponds to output 0, 01 corresponds to output 1, and so on.
1794-OB8 uses outputs 0...7; 1794-OB16 and 1794-OB16P use outputs 0...15; 1794-OB32P uses outputs 0...31.