

Special Function Output Setup by Time of Day Tech Note 1110

This Tech Note explains the steps necessary to set up a Special Function Output to drive an external device by time of Day. Devices such as signs, beacons, strobe lights, etc. can be outputted via a Load Switch output and turned/on Off by time of day.







Controller Programming Notes

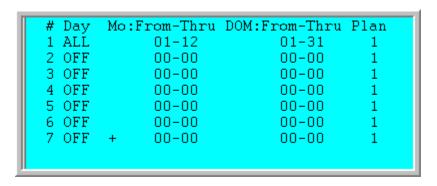
In this example, we will wire channel 9 Yellow in the cabinet to the output device. We will map the Special Function # 1 Output to Channel 9 Yellow. Whenever channel 9 Yellow is ON, the device will be turned on. The following steps are needed to program Time-of day programming in the controller to program special function outputs.

2) Go to MM->4 Scheduler.

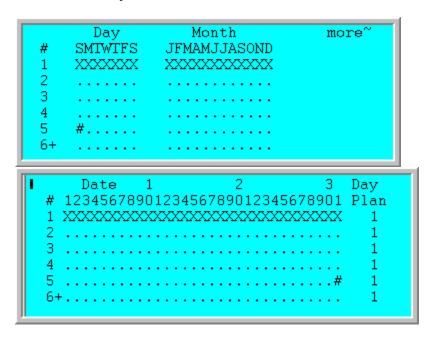
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Time Based Scheduler
1.Set Date/Time 4.Day Plan 7.Status
2.Easy Schedule 5.Action Table 8.Resrvd
3.Adv Schedule 6.Parameters 9.More
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3) Go to the Easy schedule (MM->4-2) **or** the Advanced Schedule (MM->4->3) menu and program the controller to run Day Plan #1 all year long





MM->4->2 Easy Scheduler



MM->4->3 Advanced scheduler

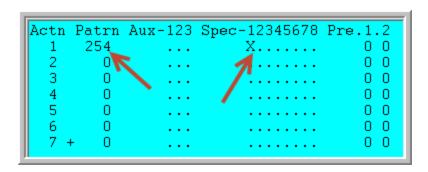
4) Set up the Day plan table - Action 99 is free pattern 254 and action 1 is Pattern that will turn on Special Function #1 (Channel 9 Yellow). In this example the output will be on between the hours of 2:00 pm to 8:00 pm.

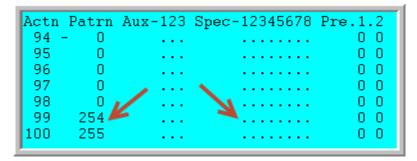


Plan- 1	Evt	Time A	ctn	Evt	Time A	Actn
Link: 0	1	00:00	99	2	14:00	1
	3	20:00	99	4	00:00	0
	5	00:00	0	6	00:00	0
	7	00:00	0	8	00:00	0
	9	00:00	0	10	00:00	0
	11	00:00	0	12	00:00	0
	+ 13	00:00			00:00	0

MM->4->4 Day plan table # 1

5) Set up the action table for Action 1 to run the NTCIP Free pattern with Special Function Output 1 ON and Action 99 to run the NTCIP Free pattern with Special Function Output 1 OFF.

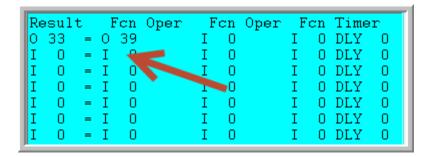




MM->4->5 Action Table

6) Next we must Map channel 9 Yellow to Special Function Output #1. We will do this by using IO Logic found under menu MM->1->8->7.





Where

0 33 = Channel 9 Yellow and **0 103** = Special Function Output # 1

General Cabinet and MMU Notes

Wire Channel 9 Yellow to your device. You must also not monitor Channel 9 in your MMU.

Summary

The procedure above is a simple and easy way of turning ON/OFF external devices via the ATC software.