ALARM CLOCK

Version: 1.0
- *Initial release*

Version: 1.1
- *Fixed problem with reset lock-up problem in Simpl+ module.*
- *Updated help file.*

Version 1.3
- *Added discrete serial feedback*
- *Added subpage controls*

Version 1.4
- *Added ability to set alarm Mon – Sun*
- *Made check routine more efficient*
- *Updated help file*

Description:
The Alarm Clock module is intended to be used to trigger events in a system at a given time (example: once alarmed turn XM on in the room).

Features:
1) Adjustable alarm time for up to 4 alarm times with 4 discrete events.
2) Adjustable system clock.
3) Adjustable snooze time ranging from 5min – 30min by increments of 5min.
4) All alarm times and on/off states are stored to NVRAM. This will recall all saved alarm times on a system reboot.

Note: NVRAM must be initialized in the processor. To initialize NVRAM, go to console and enter "NVRAMDISK 128K <enter>" at the prompt.

Current Demo Program: Alarm Clock Example Program v1.4.smw

Physical Description:

Input

D	Alarm_On	Turns the selected alarm on
D	Alarm_Off	Turns the selected alarm off
D	Alarm_Hour_Up	Changes the selected alarm hour up
D	Alarm_Hour_Down	Changes the selected alarm hour down
D	Alarm_Minute_Up	Changes the selected alarm minute up
D	Alarm_Minute_Down	Changes the selected alarm minute down
D	Alarm_1	Selects alarm 1 for edit
D	Alarm_2	Selects alarm 2 for edit
D	Alarm_3	Selects alarm 3 for edit
D	Alarm_4	Selects alarm 4 for edit
D	Alarm_Snooze	Snooze the current alarm
D	Alarm_Reset	Resets the current active alarm
D	Alarm_Snooze_Up	Changes the snooze time up
D	Alarm_Snooze_Down	Changes the snooze time down
D	Alarm_Clock_Hour_Up	Changes the system clock hour up
D	Alarm_Clock_Hour_Down	Changes the system clock hour down
D	Alarm_Clock_Min_Up	Changes the system clock minute up
D	Alarm_Clock_Min_Down	Changes the system clock minute down
D	Alarm_Sunday	Toggles active day for selected alarm 1-4
D	Alarm_Monday	Toggles active day for selected alarm 1-4
D	Alarm_Tuesday	Toggles active day for selected alarm 1-4
D	Alarm_Wednesday	Toggles active day for selected alarm 1-4
D	Alarm_Thursday	Toggles active day for selected alarm 1-4
D	Alarm_Friday	Toggles active day for selected alarm 1-4
D	Alarm_Saturday	Toggles active day for selected alarm 1-4
D	Alarm_Adjust_Alarm	Selects alarm adjust subpage
D	Alarm_Snooze_Adjust	Selects snooze adjust subpage
D	Alarm_Clock_Adjust	Selects clock adjust subpage

Output

D	Alarm_On_fb	Feedback for alarm on
D	Alarm_Off_fb	Feedback for alarm off
D	Alarm_1_fb	Feedback for alarm 1 selected
D	Alarm_1_Active_fb	Feedback for displaying alarm 1 is set
D	Alarm_1_Action_On_fb	Tied to event for alarm 1 on
D	Alarm_1_Action_Off_fb	Tied to event for alarm 1 off
D	Alarm_2_fb	Feedback for alarm 2 selected
D	Alarm_2_Active_fb	Feedback for displaying alarm 2 is set
D	Alarm_2_Action_On_fb	Tied to event for alarm 2 on
D	Alarm_2_Action_Off_fb	Tied to event for alarm 2 off
D	Alarm_3_fb	Feedback for alarm 3 selected
D	Alarm_3_Active_fb	Feedback for displaying alarm 3 is set
D	Alarm_3_Action_On_fb	Tied to event for alarm 3 on

D	Alarm_3_Action_Off_fb	Tied to event for alarm 3 off
D	Alarm_4_fb	Feedback for alarm 4 selected
D	Alarm_4_Active_fb	Feedback for displaying alarm 4 is set
D	Alarm_4_Action_On_fb	Tied to event for alarm 4 on
D	Alarm_4_Action_Off_fb	Tied to event for alarm 4 off
D	Alarm_Active_fb	Any alarm active
D	Alarm_Snooze_Active	Feedback for displaying snooze active
D	Alarm_Sunday_fb	Day of week feedback
D	Alarm_Monday_fb	Day of week feedback
D	Alarm_Tuesday_fb	Day of week feedback
D	Alarm_Wednesday_fb	Day of week feedback
D	Alarm_Thursday_fb	Day of week feedback
D	Alarm_Friday_fb	Day of week feedback
D	Alarm_Saturday_fb	Day of week feedback
D	Alarm_Adjust_Alarm_fb	Adjust Alarm feedback
D	Alarm_Snooze_Adjust_fb	Snooze adjust feedback
D	Alarm_Clock_Adjust_fb	Clock Adjust feedback
D	Adjust_Alarm_Sub_fb	Tied to adjust alarm subpage
D	Adjust_Clock_Sub_fb	Tied to adjust clock subpage
D	Adjust_Snooze_Sub_fb	Tied to adjust snooze subpage
D	Alarm_Sub_fb	Tied to alarm subpage
S	Current_Time$	Feedback for clock display
S	Alarm_Time$	Feedback for currently selected alarm
S	Snooze_Time$	Feedback for snooze time
S	Alarm_1_Time$	Feedback for alarm 1 time
S	Alarm_2_Time$	Feedback for alarm 2 time
S	Alarm_3_Time$	Feedback for alarm 3 time
S	Alarm_4_Time$	Feedback for alarm 4 time

Parameter

P	Filename	Used to set the file path for NVRAM storage