



Solid State Timers and Controllers

***USER HANDBOOK
DAILY-PROGRAMMABLE
BELL CONTROLLERS***



***MODEL
4950PMB***

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Solid State Timers and Controllers

Daily- Programmable Event Controller User's Handbook

There are only four (4) program formats that control the operation of the Model 4950PMB.
They are as follows:

- I. **SETTING THE TIME-OF-DAY****
- II. **CLEARING THE ENTIRE 99 EVENT PROGRAM MEMORY****
- III. **SETTING A DAILY SCHEDULE****
- IV. **VIEWING A DAILY PROGRAMMED SCHEDULE****

When not being programmed, the display indicates the time of the day.



9:30 AM

When improperly entering any of the four (4) program formats the display will indicate " bAd " for a period of two (2) seconds, after which the controller will return to displaying the time of day.

Each time an instruction is properly entered the display will respond with "- - - -" for a period of two (2) seconds and then return to displaying the time of day.

To enter any one of the four (4) formats the controller must have the pound sign "#" of the keyboard entered first. Each time the pound sign "#" is operated the controller resets to the first digit of the instructional format.

Should an error be made in entering any of the formats merely repress the pound sign "#" and reenter the correct format.

Should the pound sign "#" be pressed and no instructional format follow, the controller will return to displaying the time of day within ten (10) seconds.

All four (4) formats are terminated with the entry of the asterisk "*" , and they are programmed as follows:

I. SETTING THE TIME OF DAY

To set the time of day enter:

(#) - (9) - (T) - (T) - (T) - (T) - (*)

The four "T's" are the time of the day in 24 hour time,

i.e.: 1:00 AM is equal to 0100, 12:00 PM (NOON) is equal to 1200, 6:00 PM is equal to 1800. The time of day will not be set unless four numbers are entered for the series of "T's." Anytime prior to 1000 must have the leading "0" entered, i.e.: 0930. If the time of day has been entered correctly the display will respond with four dashes "- - - -" and return to displaying the new time of the day.



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II. CLEARING THE ENTIRE 99 EVENT PROGRAM MEMORY

To clear the entire 99 event program memory enter:

(#) - (0) - (*)

The display will respond with four dashes "----" indicating that the entire 99 event program memory is cleared. To clear a single scheduled event, simply reprogram that schedule to have a interval period of 00 seconds.

III. SETTING A DAILY BELL SCHEDULE

Schedules are programmed from 0000 to 2359 for any given day. The format to set a schedule for any day is:

(#) - 1 - (event) - (TTTT) - (NN) - (*)

The event number is numbered 01, 02, 03 through 56. The time of day is four digits as shown in Section I. The NN is the interval period of the output relay from 01 to 99 minutes. When an event has been programmed, that event will take place every day.

It is important for proper operation that the daily schedule be entered in ascending order of time, event #1 must be earlier than #2, etc.

IV. VIEWING A DAILY PROGRAMMED SCHEDULE

Once a daily schedule has been entered the user can verify that the scheduled program is the one desired. To view a daily schedule enter:

(#) - (0) - (1) - (*)

The display will proceed to show all actively set schedules for the day selected as follows:

E-01 (indicating Event #1)
1234 (indicating the time of 12:34)
--15 (indicating that relay 1 to TURN ON for 15 minutes)

E-02 (indicating Event #2)
1500 (indicating the time of 15:00, 3:00 PM)
--05 (indicating that relay 1 to TURN ON for 5 minutes)

When all daily schedules have been scrolled in this manner, the display indicates "----", and returns to the display of the current day and time.



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FORMAT RECAP:

- | | | |
|------|---------------------------------------|----------------------------------|
| I. | # - 9 - T - T - T - T - * | (ENTER TIME) |
| II. | # - 0 - * | (CLEARING ENTIRE PROGRAM MEMORY) |
| III. | # - E - E - T - T - T - T - N - N - * | (PROGRAM SCHEDULE) |
| IV. | # - 0 - 1 - * | (SCROLLING A DAILY SCHEDULE) |

Where:

E	=	EVENT NUMBER (01 - 56)
T	=	TIME-OF-DAY (0000 - 2359)
N	=	OUTPUT INTERVAL TIMING PERIOD (01 - 99)
#	=	START FORMAT
*	=	END FORMAT

PROGRAMMING EXAMPLES:

1. SET CURRENT TIME OF DAY TO 1:25 PM

- 9 - 1 - 3 - 2 - 5 - *

(1:25 PM = 1325)

2. CLEAR ALL PROGRAM MEMORY:

- 0 - *

(all 56 memory locations have now been cleared)

3. Program relay K1 to close every day at 10:00 AM for 5 minutes:

- 0 - 1 - 1 - 0 - 0 - 0 - 0 - 5 - *