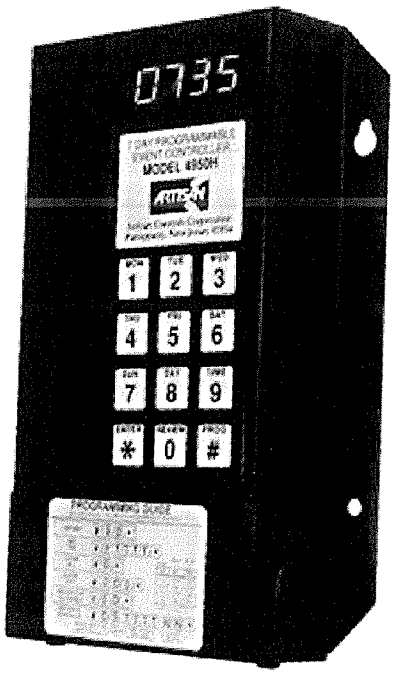
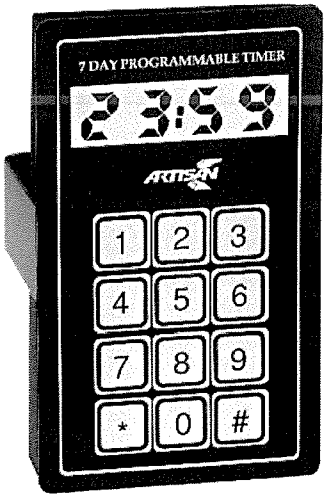
USER HANDBOOK
7 DAY PROGRAMMABLE
EVENT CONTROLLERS

OCTOBER 1996





MODEL 4950B

MODEL 4954B

Artisan Controls Corporation,
111 Canfield Ave, Bldg B15-18, Randolph, New Jersey 07869, USA
Tel: 973-598-9400 • Fax: 973-598-9410 • Toll Free: 800-457-4950
website: www.artisancontrols.com

There are only six (6) program formats that control the operation of the Model 495X BELL. They are as follows:

1. SETTING THE DAY
2. SETTING THE TIME-OF-DAY
3. CLEARING THE ENTIRE 7 DAY PROGRAM MEMORY
4. SETTING A DAILY SCHEDULE
5. VIEWING A DAILY PROGRAMMED SCHEDULE
6. CLEARING A SINGLE DAY MEMORY

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

dAy2	0930
DAY #2 (Tuesday)	9:30AM

When improperly entering any of the six (6) program formats the display will indicate " bAd " for a period of two (2) seconds, after which the controller will return to displaying the day and 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 day and time of day.

To enter any one of the six (6) 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 day and the time of day within ten (10) seconds.

All six (6) formats are terminated with the entry of the asterisk "*" , and they are programmed as follows:

I. *SETTING THE DAY*

The days of the week are numbered Monday through Sunday with Monday being day 1 and Sunday being day 7. To set any of the seven days enter:

(#) - (8) - (day-of-week) - (*)

If properly entered the display will respond with four dashes "- - - -" and return to displaying the newly entered day and the original time of day.

II. *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,

ie: 1:00 AM is equal to 0100, 12:00 PM (NOON) is equal to 1200, 6:00PM 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, ie: 0930. If the time of day has been entered correctly the display will respond with four dashes "- - - -" and return to displaying the day of the week and the new time of the day.

III. *CLEARING THE ENTIRE 7 DAY PROGRAM MEMORY*

To clear the entire 7 day program memory enter:

(#) - (0) - (*)

The display will respond with four dashes "- - - -" indicating that the entire 7 day program memory is cleared.

IV. *SETTING A DAILY SCHEDULE*

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

(#) - (day-of-week) - (schedule number) - (TTTT) - (NN) - (*)

The day number is numbered 1 through 7. The schedule is schedule 1,2,3,4,5,6,7, or 8. The time of day is four digits as in Number II. above. The "NN" represents the amount of time to activate relay K1 for. This time period can be from 1 to 99 seconds.

A feature of the model 495X BELL which makes for easy programming is that when a schedule is programmed for a given day, the same schedule will appear on the following higher days. As an example: if schedule #1 is programmed for Monday, the same schedule appears on Tuesday through Sunday. Should a change be made to schedule #1 for Saturday, the Saturday schedule will then appear on Sunday. This eliminates the need to program the same schedule seven times for each of the seven days.

V. *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) - (day-of-week) - (*)

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

d1-1 (indicating Day 1 Monday, Schedule # 1)
1234 (indicating the time of 12:34)
--15 (indicating that relay 1 will turn on for 15 seconds)

d1-2 (indicating Day 1 Monday, Schedule # 2)
1500 (indicating the time of 15:00, 3:00 PM)
--05 (indicating that relay 1 will turn on for 5 seconds)

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

VI. *CLEARING A SINGLE DAY*

A single day may have all eight schedules cleared by entering:

(#) - (0) - (day-of-week) - (0) - (*)

FORMAT RECAP:

I.	# - **8** - **D** - *	(ENTER DAY OF WEEK)
II.	# - **9** - **T** - **T** - **T** - **T** - *	(ENTER TIME)
III.	# - **0** - *	(CLEARING ENTIRE PROGRAM MEMORY)
IV.	# - **D** - **S** - **T** - **T** - **T** - **T** - **N** - **N** - *	(PROGRAM SCHEDULE)
V.	# - **0** - **D** - *	(SCROLLING A DAILY SCHEDULE)
VI.	# - **0** - **D** - **0** - *	(CLEAR A SINGLE DAY)

Where:

D	=	DAY-OF-WEEK (MONDAY = day 1, SUNDAY = day 7)
T	=	TIME-OF-DAY (0000 - 2359)
S	=	SCHEDULE NUMBER (1, 2, 3, 4, 5, 6, 7, 8)
N	=	TIME IN SECONDS TO TURN K1 ON
#	=	START FORMAT
*	=	END FORMAT

PROGRAMMING EXAMPLES:

1. SET DAY FOR THURSDAY:

 # - 8 - 4 - *

(MON = 1, TUE = 2, WED = 3, THU = 4, FRI = 5, SAT = 6, SUN = 7)

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

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

(1:25PM = 1325)

3. CLEAR ALL PROGRAM MEMORY:

 # - 0 - *

(all 56 memory locations that will hold 8 schedules per day have now been cleared)

4. Program relay K1 to close every day at 10:00AM, Monday through Friday only, for a period of 5 seconds.

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

- OUTPUT RELAY TIME
- 10:00 AM
- SCHEDULE #1
- DAY 1 (Monday)

Since the Saturday and Sunday schedules do not call for the same schedules as programmed for Monday through Friday, both Day 6 (Saturday) and Day 7 (Sunday) must first be cleared.

 # - 0 - 6 - 0 - *

CLEARS DAY 6 (Saturday)

 # - 0 - 7 - 0 - *

CLEARS DAY 7 (Sunday)

Program relay K1 to TURN ON at 9:30 AM for 10 seconds on Day 6 (Saturday) and Day 7 (Sunday):

 # - 6 - 1 - 0 - 9 - 3 - 0 - 1 - 0 - *

OUTPUT RELAY TIME

0930 (09:30 AM)

SCHEDULE #1

DAY 6 (Saturday)

Programming the Day 6 (Saturday) schedule, the Day 7 (Sunday) schedule is programmed automatically.

USER HANDBOOK

SEVEN DAY PROGRAMMABLE BELL CONTROLLER MODEL 495X BELL

- 1 - 1 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 1 - 2 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 1 - 3 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 1 - 4 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 1 - 5 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 1 - 6 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 1 - 7 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 1 - 8 - ___ - ___ - ___ - ___ - ___ - ___ - *

DAY #1 PROGRAM SCHEDULE

- 2 - 1 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 2 - 2 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 2 - 3 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 2 - 4 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 2 - 5 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 2 - 6 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 2 - 7 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 2 - 8 - ___ - ___ - ___ - ___ - ___ - ___ - *

DAY #2 PROGRAM SCHEDULE

- 3 - 1 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 3 - 2 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 3 - 3 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 3 - 4 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 3 - 5 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 3 - 6 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 3 - 7 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 3 - 8 - ___ - ___ - ___ - ___ - ___ - ___ - *

DAY #3 PROGRAM SCHEDULE

- 4 - 1 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 4 - 2 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 4 - 3 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 4 - 4 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 4 - 5 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 4 - 6 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 4 - 7 - ___ - ___ - ___ - ___ - ___ - ___ - *

- 4 - 8 - ___ - ___ - ___ - ___ - ___ - ___ - *

DAY #4 PROGRAM SCHEDULE

- 5 - 1 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 5 - 2 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 5 - 3 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 5 - 4 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 5 - 5 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 5 - 6 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 5 - 7 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 5 - 8 - ___ - ___ - ___ - ___ - ___ - ___ - *

DAY #5 PROGRAM SCHEDULE

- 6 - 1 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 6 - 2 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 6 - 3 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 6 - 4 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 6 - 5 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 6 - 6 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 6 - 7 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 6 - 8 - ___ - ___ - ___ - ___ - ___ - ___ - *

DAY #6 PROGRAM SCHEDULE

- 7 - 1 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 7 - 2 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 7 - 3 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 7 - 4 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 7 - 5 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 7 - 6 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 7 - 7 - ___ - ___ - ___ - ___ - ___ - ___ - *
- 7 - 8 - ___ - ___ - ___ - ___ - ___ - ___ - *

DAY #7 PROGRAM SCHEDULE

- D - S - T - T - T - T - N - N - *

D
DAY #
1 - 7

S
SCHEDULED
EVENT #
1 - 8

N -N
OUTPUT RELAY
TIME
1 - 99 SECONDS

T - T - T -T
EVENT TIME IN FOUR
DIGIT 24 HOUR FORMAT

12:00	AM	= 0 0 0 0
9:00	AM	= 0 9 0 0
12:00	PM	= 1 2 0 0
1:00	PM	= 1 3 0 0
4:30	PM	= 1 6 3 0
11:59	PM	= 2 3 5 9