

# MODEL 35

## 12 Channel Randomizer/Sequencer

- 12 individual outputs
- 3 Output Options
- Sequence or Random Modes
- Random or Adjustable Time On/Off
- Remote Start (2 wire or 3 wire)
- Engineered and Built in the U.S.A.

### DESCRIPTION

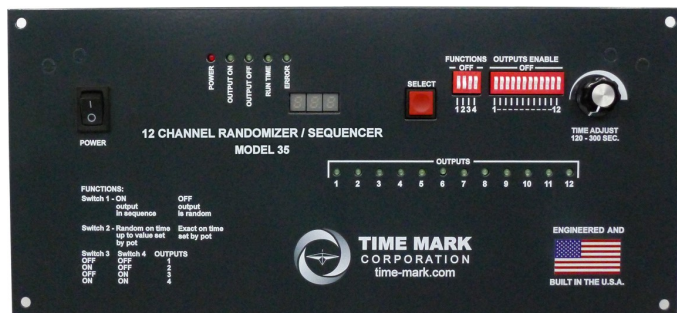
The Time Mark **Model 35 12 Channel Randomizer/Sequencer** can sequence up to 12 channels with one to four channels active at a time. The controller offers 2 modes of operation:

Sequence Mode: Once triggered, the unit will activate up to four outputs for a predetermined time, deactivate those outputs and then repeat with the next outputs in sequence.

Random Mode: Once triggered, the unit will activate up to four outputs for a random amount of time (120 to 300 sec.). After that, the unit will deactivate those outputs (1 to 30 sec.), then pick a new set of outputs.

In either mode: you can adjust the total run time, the number of outputs (up to four), the length of time they stay on and the length of time before the next group of outputs come on.

Custom programming is available from the factory.

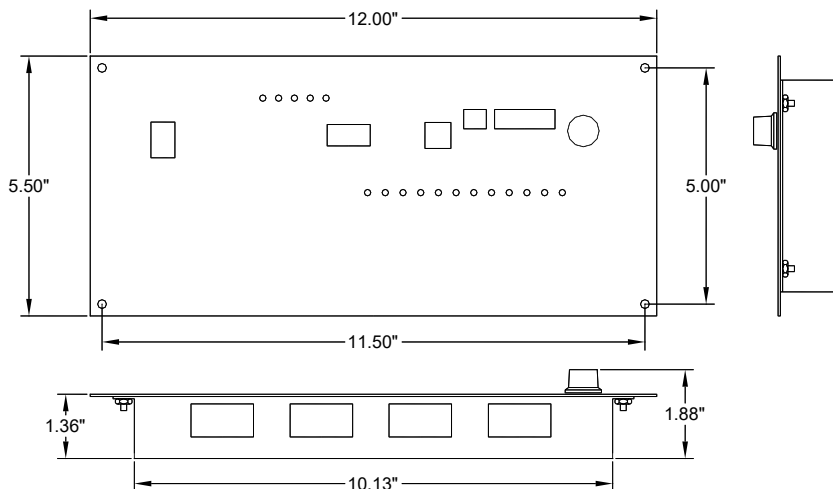


### SPECIFICATIONS

Model	35
Input voltage	24VAC +/-10%
Power consumption	12W
Signal input (trigger)	2 wire / 3 wire
Display type	7 segment LED / 17 LED's
Output	12 relays (SPST)
Output configuration	See output setup
Surge protection	1500W (10/1000 $\mu$ s)
Circuit breaker	500mA*
Operating temp.	0 – 130°F
Humidity	0 – 90% non-condensing
Dimensions	12.0"x 5.5"x1.88"
Weight	2.5 lbs.
Country of Origin	U.S.A.

\* Circuit breaker protects Model 35 only

### DIMENSIONS



Telephone: Main - (918) 438-1220  
Sales - (800) 862-2875  
Fax: (918) 437-7584

E-mail: sales@time-mark.com  
Internet: http://www.time-mark.com



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Tulsa, Oklahoma 74116

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## MODEL 35

## 12 Channel Randomizer/Sequencer

READ ALL INSTRUCTIONS BEFORE INSTALLING, OPERATING OR SERVICING THIS DEVICE.  
KEEP THIS DATA SHEET FOR FUTURE REFERENCE

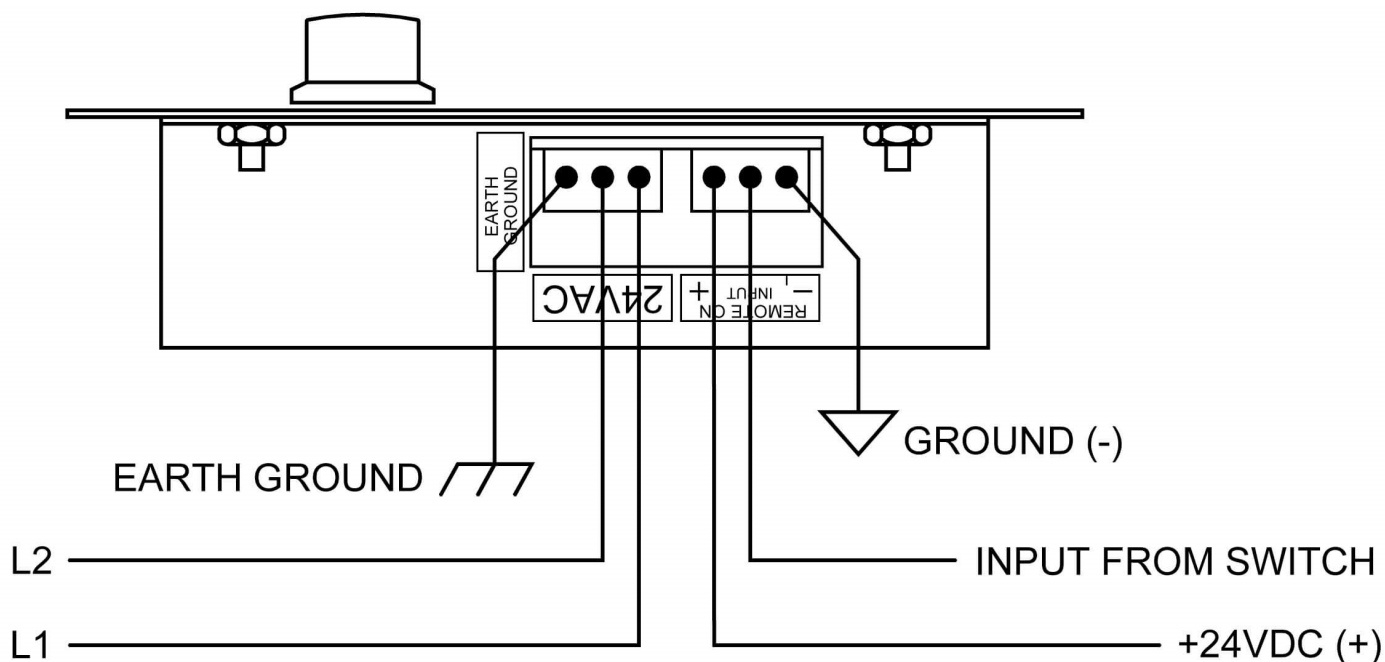
### GENERAL SAFETY

POTENTIALLY HAZARDOUS VOLTAGES ARE PRESENT AT THE TERMINALS OF THE MODEL 35.  
ALL ELECTRICAL POWER SHOULD BE REMOVED WHEN CONNECTING OR DISCONNECTING WIRING.  
THIS DEVICE SHOULD BE INSTALLED AND SERVICED BY QUALIFIED PERSONNEL.

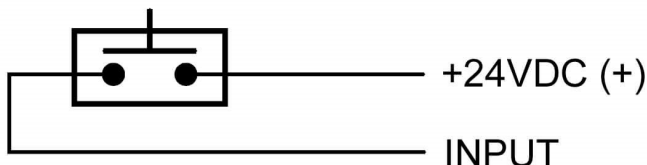
## Installation and Setup Instructions

### POWER AND TRIGGER CONFIGURATIONS

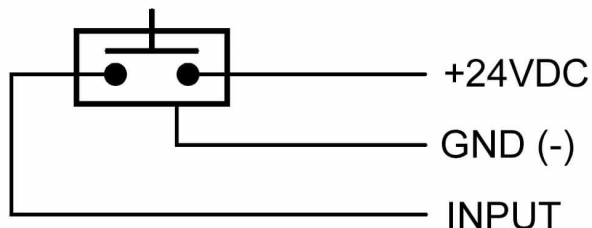
- 1) Connect the Model 35 to 24VAC (L1, L2) and earth ground as shown below
- 2) The Model 35 requires a two or three wire external trigger (switch) to operate. See wiring diagrams.



#### REMOTE TRIG. (2 WIRE)



#### REMOTE TRIG. (3 WIRE)



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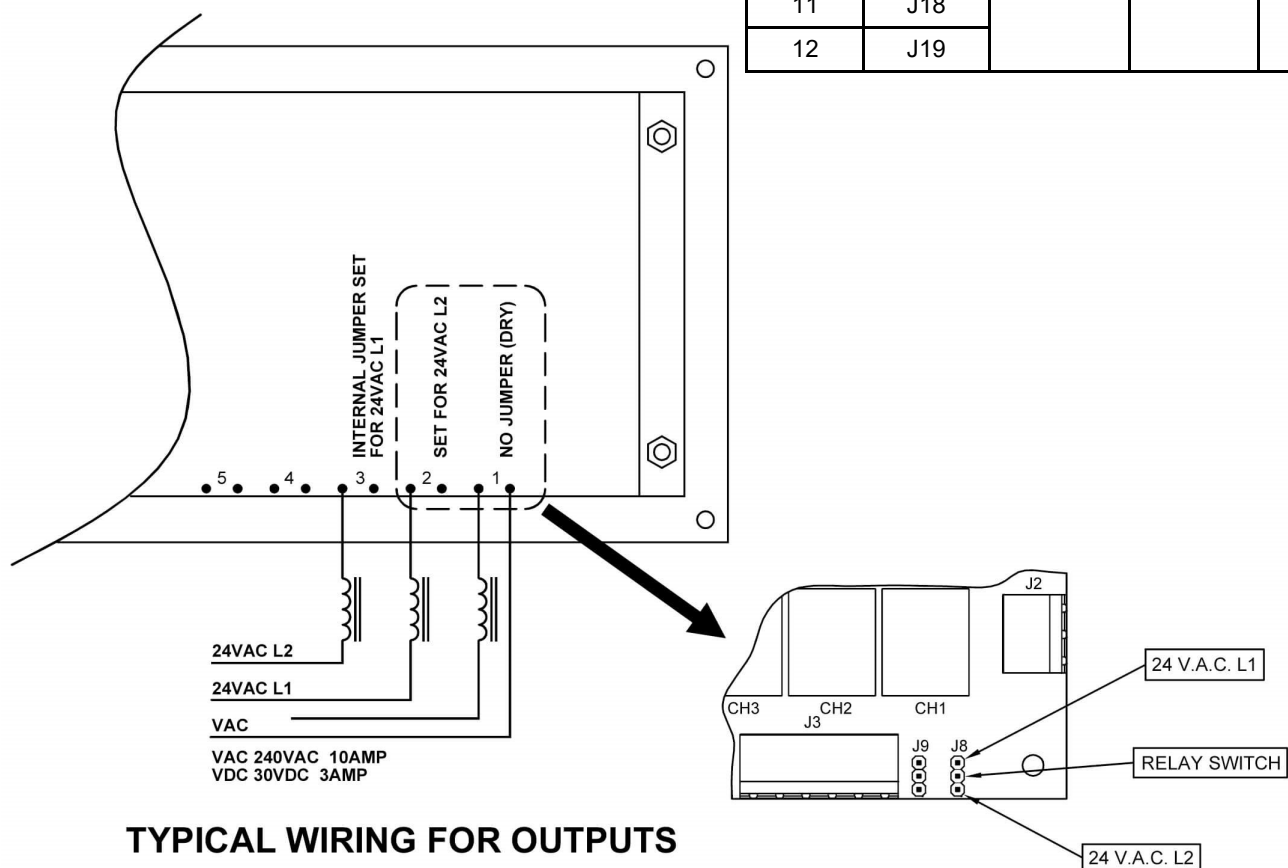
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## OUTPUT SETUP

Select one of 3 output relay options before final mounting:

- 1) No jumper — The relay is a dry contact (SPST/N.O.) for that channel.
- 2) Jumper center and upper pin — The relay will provide 24VAC to the output pin for that channel.
- 3) Jumper center and lower pin — The relay will provide ground to the output pin for that channel.

RELAY OUTPUT	PIN HEADER	SWITCH L1	SWITCH L2	DRY CONTACT
1	J8	JUMPER UPPER TWO PINS	JUMPER LOWER TWO PINS	DO NOT INSTALL JUMPER
2	J9			
3	J10			
4	J11			
5	J12			
6	J13			
7	J14			
8	J15			
9	J16			
10	J17			
11	J18			
12	J19			



TYPICAL WIRING FOR OUTPUTS

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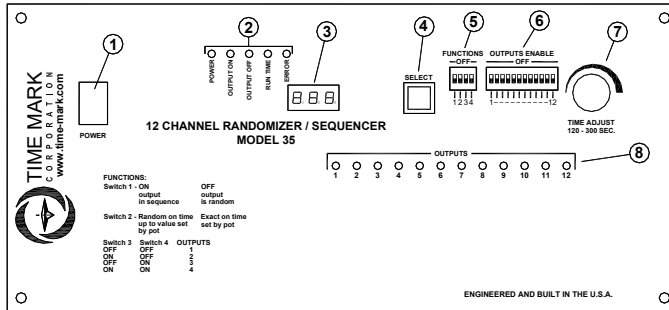
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## MODEL 35 CONTROL FUNCTIONS



- (1) Power switch – turns controller on and off.
- (2) LED Indicators:  
POWER – Indicates unit is on.  
OUTPUT ON – Indicates when outputs are on  
OUTPUT OFF – Indicates when outputs are off  
RUN TIME – Indicates the total cycle time between external triggers.  
ERROR – Indicates an error in setup  
LED's will blink if potentiometer is set to minimum, maximum or if the number of outputs to activate (switches 3 & 4) is greater than the number enabled (switch S1).  
*Note: The number of outputs enabled should be two times the number to be activated.*
- (3) Seven segment display  
During **set up**, the display will show the ON time, OFF time or CYCLE time.  
During **normal run**, the display will count down the ON or OFF, or show PLA ("PLA" indicates the controller is waiting for a trigger).
- (4) Function select switch  
Used to pick the parameter to adjust (**setup**) or to scroll through the settings (**normal**)
- (5) Control functions (4 position dip switch)

### Position 1

ON	Output in sequence
OFF	Output is random

### Position 2

ON	Random time ON up to value set by pot
OFF	Exact time set by pot

## Control functions (cont.)

Position 3	Position 4	Number of outputs
OFF	OFF	1
ON	OFF	2
OFF	ON	3
ON	ON	4

- (6) Output enable/disable – 12 position dip switch (Channels set to OFF are disabled)
- (7) Time adjustment control  
Output ON time: 120 – 300 Sec.  
Output OFF time: 1 – 30 Sec.  
Run time: 5 – 30 Min.
- (8) Output indication (12 LED's)  
LED's indicate when a channel is ON

## BASIC SETUP

Press the Power button.

Press and hold the select switch until the OUTPUT ON LED blinks. Adjust the Time Adjust pot until the desired time is shown on the display.

Press the select button again and the OUTPUT OFF LED will blink. Adjust the Time Adjust pot until the desired time is shown on the display.

Press the select button again and the RUN TIME LED will blink. Adjust the Time Adjust pot until the desired time is shown on the display.

All settings are stored in non-volatile memory.

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### SAMPLE CONFIGURATION

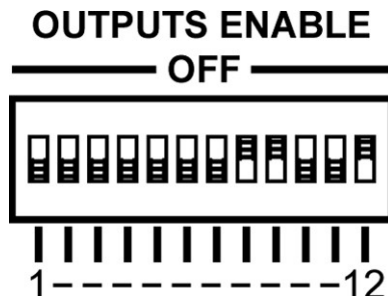
Example:

Splash pad with 9 features connected to outputs 1-7, 10 and 11, turning on a random 3 outputs at a time for 3 minutes followed by an off time of 3 seconds between feature changes.

**“Outputs Enable”** switches are as set as follows:

Switches Down (ON): 1-7, 10 and 11

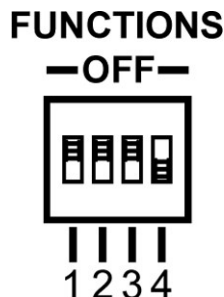
Switches Up (OFF): 8, 9 and 12



**“Functions”** switches are set as follows:

Switches Down (ON): 4

Switches Up (OFF): 1-3



### WARRANTY

This product is warranted to be free from defects in materials and workmanship for one year. Should this device fail to operate, we will repair it for one year from the date of manufacture. For complete warranty details, see the Terms and Conditions of Sales page in the front section of the Time Mark catalog or contact Time Mark at 1-800-862-2875.

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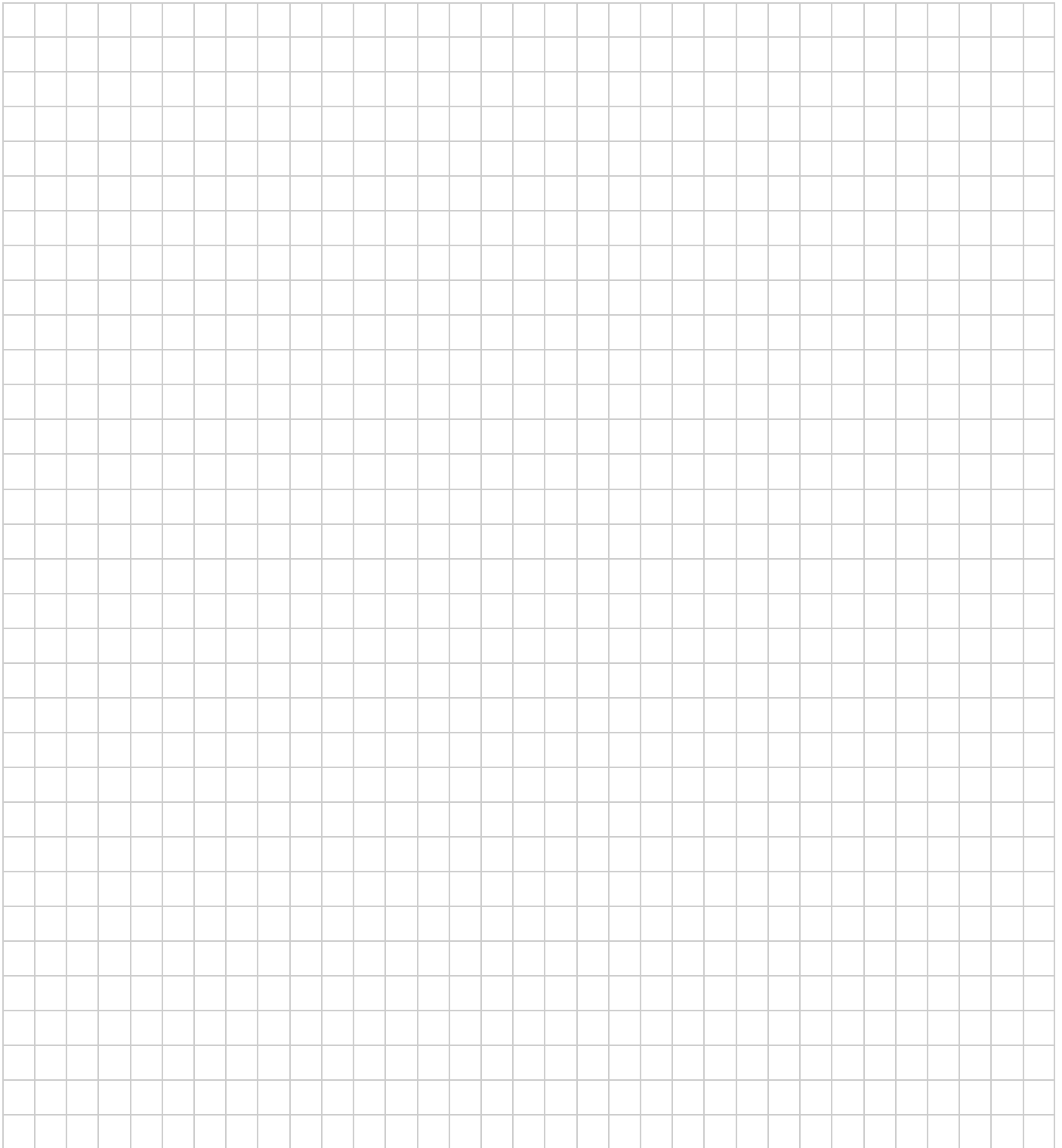


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