

## Gilson Digital Lab Timer TSA-169R

### INTRODUCTION

The TSA-169R Gilson Digital Lab Timer is a heavy-duty countdown timer designed to control devices drawing electrical currents up to 20 amps. A large 0.6" (15mm) LED display and User-selectable timing modes from 1 second to 99 hours, 59 minutes are featured. The timer is supplied with a power cable and auxiliary outlet configured for 115V, 60Hz North American power supplies.

**NOTE:** Contact Gilson for details on reconfiguring this unit to operate on power supplies from 100 to 265 volts ac and 50/60Hz. Failure to contact Gilson first will void the warranty.

### OPERATING INSTRUCTIONS

**Connection:** With the TSA-169R disconnected from the electrical supply, plug the power cable from the device to be controlled into the grounded electrical outlet at the back of the Timer. Plug the Timer into a grounded electrical outlet. The four-digit display and the LED indicating the operating mode will light up. Turn the power switch of the controlled device on.

Current timer mode is indicated by the four red LED's on the timer face:

- A = MMSS (99min:59sec x 1 second)
- B = HHMM (99hr:59min x 1 minute)
- C = SSSS (9999sec x 1 second)
- D = MMMM (9999min x 1 minute)

(H is for hours, M for minutes, and S for seconds.)

**NOTE:** To prevent accidental changes to operating values, there is a slightly delayed response when the keys are pressed. When entering values into the Timer, press each key once until a beep is heard and the display changes.

**Change Mode:** To adjust the timer mode, press and hold both <UP> and <DOWN> arrow keys at the same time until the display shows the mode. Once the mode letters are displayed, press <UP> or <DOWN> arrow keys to change modes. Press the <START/STOP> key to accept the new mode.



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**Set Time:** To set the run-time, press either the <UP> or <DOWN> arrow key. The first digit on the right-hand side will flash in half-second intervals. Press either arrow key to adjust to the desired value. To accept the displayed digit and move to the next, press <START/STOP>. Once the last digit on the left is entered, the timer is ready to start.

**Operation:** Check to see that the desired mode and the correct time have been selected. Press <START/STOP> to initiate the current run program. The controlled device turns on, the LED for the selected mode flashes and the display begins to count down. Once running, pressing <START/STOP> again will pause the timer with the current amount of time remaining on screen. When countdown is complete, DONE is displayed and the timer beeps once. DONE remains on the display until any key is pressed once. The display then returns to the stored value and is ready to begin another cycle. Setting and Mode values are saved automatically. Setting and mode values are saved automatically if power is disconnected or interrupted.