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LS310 Digital Programmable Wall Switch Timer

In-Wall 7-Day Daily Programmable Digital Timer
 Replaces a standard (single pole) wall switch
 Fits a standard electrical junction box
 Program up to 14 ON / OFF Settings (7 Program Pairs)
 Program Different Settings for Each Day of the Week

Applications:
 Replaces a standard (single pole) Wall Switch
 For Convenience – Come home to an illuminated home.
 For Energy Savings – Time your lighting to come ON and OFF as needed.
 For Added Safety – Gives your home a lived-in look.
 For Indoor Use Only.
 Ideal for controlling: Lighting, Fans.



Caution: DO NOT EXCEED CAPACITY

Electrical Ratings:

120 VAC 60Hz
 15 A
 1800 W Resistive
 1800 W Tungsten
 500 VA Electronic Ballast
 1 HP

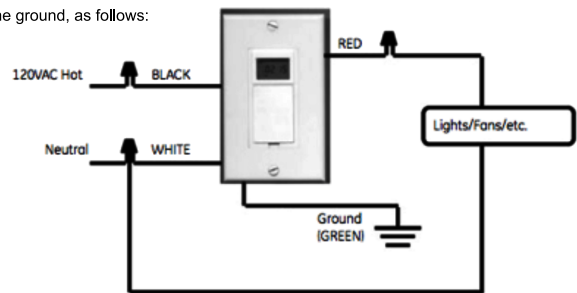
Other Specifications:

Programmable Time Increments: 1 Minute
 Output Control: Timer or Manual Control
 Output Switch: Relay
 Timer Accuracy: +/- 1 second / day at 20° C

Installation Instructions:

This timer replaces a standard (single pole) Wall Switch. This timer is designed to fit a standard (minimum 2 1/2" deep) electrical junction box in new construction or to replace an existing wall switch. It is used for the automatic control of a lighting circuit or motor driven device such as a ceiling or attic fan. **Do not exceed capacity.** It is recommended that installation, while simple, be done by an electrician. **Connect in accordance with national and local electrical codes.**

- Turn OFF the main power. Disconnect electrical power for the circuit by removing fuse or switching off circuit breaker.
- Remove the existing switch. There should be three wires in the electrical box, or four wires including the ground, as follows:
 "HOT" or "Live" wire – usually black
 "LOAD" wire – usually red
 "NEUTRAL" wire – usually white
 "GROUND" wire (if present) – usually green or bare copper wire



- Connect the wires of Timer and electrical wall box as follows:
 (1) Connect the 'Hot' wire to Timer's black wire,
 (2) Connect both the Neutral wires of the main power and Load to the Timer's White wire
 (3) Connect the 'Hot / Live' wire of Load to Timer's red wire, and
 (4) Connect the 'Ground' wire to Timer's green wire. In newer type installations, there may be a green wire in the box which is connected to a green screw on the wall switch.
 This green grounding wire, if present, should be securely fastened to any metallic screw within the junction box. If the box is plastic, twist the green wire around a group of bare copper (ground) wires found in the box.

4. In making connections, wires should be twisted together and secured with twist-on wire connectors provided. **BE SURE ALL CONNECTIONS ARE SECURE. DOUBLE CHECK ALL TWIST-ON WIRE CONNECTORS.**

5. Tuck the wires into the electrical wall box leaving room for Timer. Mount the Timer to the electrical wall box using the screws provided. **DO NOT CRUSH ANY WIRES.**

6. Using the two shorter screws provided, mount the wallplate.

7. Restore power to the circuit by turning the main power ON.

Programming & Operating Instructions:

A. Manual Operation (Manual Override):

Pressing the door will override the timer setting and will manually turn the switch ON and OFF.

B. Initial Set-Up:

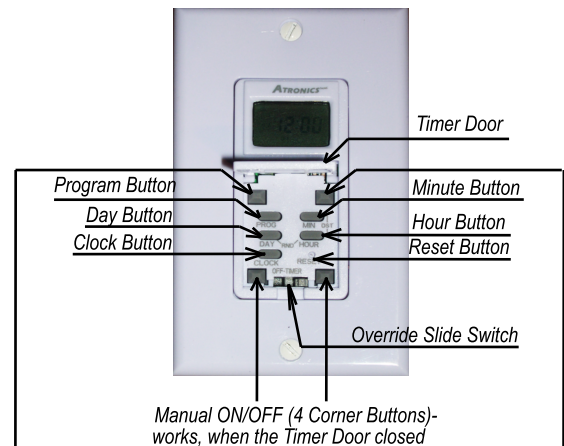
When you initially program the unit it may be necessary to press the manual override button as the unit will not look back to determine if it should be ON. For example, if the current time is 2:00 PM and you just programmed the unit to turn ON at 1:00 PM, you will need to press the manual override button to turn it ON. Thereafter, the unit will resume normal operation (automatic operation).

C. Power-Up Sequence:

- Lift up the bottom of the door using a small slotted screwdriver.
- Position the slide switch to "TIMER".
- Press the "RESET" button using an insulated tool such as a toothpick.
- The display should flash "MO (Monday) 12:00 AM".

D. Setting Current Time:

- Press and hold the "CLOCK" button during this entire procedure.
- Press the "HOUR" button to advance the hours.
- Press the "MIN" button to advance the minutes.
- Press the "DAY" button to advance the day.
- Note: If any buttons are pressed for a prolonged period, the display will advance rapidly.
- Release the "CLOCK" button once the time and day have been entered. The timer is now in operation and ready to be programmed. The colon ":" in the hours of the display will continually flash indicating the clock is functioning.



E. Programming ON / OFF Events:

1. Press the "PROG" button once. "TIMER 1 ON -- : -- " appears on the display.
2. Using the "HOUR" and "MIN" buttons, enter the desired ON time. By default all days are indicated. Refer to "Block Programming" below for selecting different days. When complete, press the "PROG" button one time.
3. "TIMER OFF -- : -- " will be displayed. Using the "HOUR" and "MIN" buttons, enter the desired OFF time. By default all days are indicated. Refer to "Block Programming" below for selecting different days. When complete, press the "PROG" button once.
4. If complete, press "CLOCK" to return to current time and day.
5. Note: Total of 14 ON / OFF events (7 pairs) can be programmed.

F. Block Programming:

1. When programming ON / OFF events, all days are indicated by default. To change the day selection, simply keep pressing the "DAY" button and the display will change as follows:
 - a. Individual day settings: "MO" or "TU" or "WE" etc.
 - b. Weekdays - Monday to Friday setting: "MO" "TU" "WE" "TH" "FR"
 - c. Weekends - Saturday and Sunday setting: "SA" "SU"
 - d. Monday to Saturday setting: "MO" "TU" "WE" "TH" "FR" "SA"
 - e. Daily - Monday to Sunday setting: "MO" "TU" "WE" "TH" "FR" "SA" "SU"
 - f. Monday, Wednesday & Friday setting: "MO" "WE" "FR"
 - g. Tuesday, Thursday & Saturday setting: "TU" "TH" "SA"
 - h. Follow the steps above to complete programming.

G. Daylight Saving Time (DST) Adjustment:

1. To activate DST Mode, press both the "HOUR" and "MIN" buttons at the same time. The current time will advance by one hour and the display will show "DST".
2. To de-activate DST, press the "HOUR" and "MIN" buttons at the same time. The current time will go back by one hour and the display will no longer show "DST".

H. Random ON / OFF (RND) Setting:

This feature sets the timer to switch lights ON and OFF at random intervals while you are out of the house. This function (mode) will only operate if one or more programmed switching commands (event) is set.

1. To activate Random Mode, press "DAY" and "HOUR" buttons at the same time. Once activated, the "TIMER" symbol on the display will be blinking.
2. To de-activate Random, press "DAY" and "HOUR" buttons at the same time. The display will no longer show the "TIMER" symbol.

I. Reviewing Programs:

1. To review the programs that have been entered, press and release the "PROG" button. Each time you do this you will be able to scroll through the programs (events).
2. Any program (event) can be edited by pressing the "HOUR", "MIN" and "DAY" buttons. Then press "PROG" button in order to accept the changes.
3. When complete, press the "CLOCK" button to return to current time and day.

J. Deleting Programs (Events):

1. To delete a specific program (event), simply press the "PROG" button until the desired program is displayed.
2. Then press "HOUR" and "MIN" buttons until "-- : -- " is displayed. Then press the "PROG" key in order to delete the chosen program (event).
3. When complete, press the "CLOCK" button to return to current time and day.

K. Memory Backup:

This Timer is equipped with an internal rechargeable Ni-Mh battery designed to provide backup power for up to thirty (30) days to protect your programs in the event of a power failure. No need to replace the battery.

Note: The display blanks if the battery is discharged completely.

SAFETY WARNING:

Risk of Electric Shock:

Disconnect power at the electrical panel before installation or servicing
For indoor use only
Do not use in wet or damp areas

Risk of Fire:

Do not exceed electrical ratings
Use copper wire only with this device

Limited Warranty:

Atron Electro Industries Inc. (Atron) warrants to the original purchaser, that this timer (product) shall be free from defects in material and workmanship for a period of five (5) years from the date of purchase. During the "in-warranty" period, defective product will be repaired or replaced at the sole discretion of Atron. This warranty covers normal domestic usage and does not cover damage which has occurred in shipment or failure which results from alteration, accident, misuse, abuse, or improper maintenance.

Defective product should be returned to the original place of purchase within the retailer's stipulated return/exchange period.

If product is found to be defective outside the retailer's return/exchange period, then return product postage/shipping prepaid along with the original purchase receipt to:

Customer Service Department
Atron Electro Industries Inc.
429 Alliance Ave.
Toronto, ON M6N 2J1

Atron will not be liable for incidental or consequential damages.

Additional information may be found at www.atron.ca

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