15250

# Digital Time Switch

Indoor/Outdoor
NEMA 3R-Rated
Enclosure

## SPECIFICATIONS

Input Voltage: 120 VAC, 208/240 VAC, or 277 VAC in all units based upon dipswitch configuration.

| | | | |
|---|---|---|---|
| **15252** | **NEMA 3R** | **Indoor & Outdoor** | **BM-A301US5-O2** |
| **15253, 15251** | **NEMA 1** | **Indoor** | **BM-A301US5-I2** |
| **15250** | **NEMA 3R** | **Indoor & Outdoor** | **EM-A301US9-O2** |

**Switch Rating: DPDT Models**

**Normally Open Contacts**

40A Resistive, 120-277Vac.
30A General Purpose, 120-277Vac.
20A Resistive, 30Vdc
1 HP, 120Vac ; 2HP, 240Vac
20A Ballast, 120-277Vac.
15A Tungsten, 120Vac
800VA, Pilot Duty, 120Vac.
720VA, Pilot Duty, 240Vac.
TV-5, 120Vac

**Normally Closed Contacts**

30A Resistive, 120-277Vac
15A General Purpose, 120-277Vac
15A Resistive, 30Vdc
20A Ballast, 120-277Vac
1/4HP, 120Vac; 1/2HP, 208-240Vac.
290VA, Pilot, 120Vac.
360VA, Pilot, 208-240Vac.

**NOTE:** If loads are connected to both NC and NO contacts, both contacts are derated to 67% of the above values.

## ENVIRONMENTAL RATINGS

Ambient Temperature: –40F to 130F
Humidity: 0-95% RH, Non-condensing

## WIRING CONNECTIONS

Screw clamp terminals for up to 2 AWG #8 wires per position. For supply connections, use 8AWG or larger wires suitable for at least 105° C. Use copper conductors only.

## LIGHTS

Power LED (Orange) – Light illuminates when power is applied to the timer

Status LED (Green) – Light illuminates when power is applied to load.

## INSTALLATION

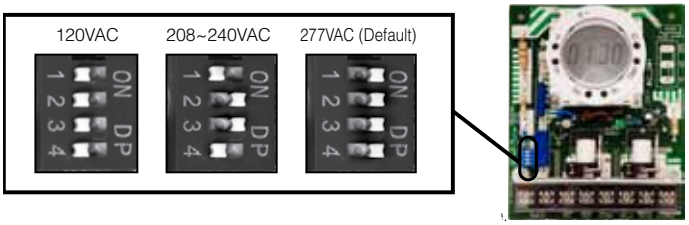
**CAUTION:** Before wiring or service, power to this time switch and the equipment it controls must be turned off. Turning off the timer switch only will not prevent a shock hazard. Replace cover plate within housing before supplying power to time switch. Installation should be performed by a licensed electrician only. Before installing this product read all instructions carefully. Remove protective cover panel within time switch housing by removing screws located above timer face and at the bottom of the cover panel.

## DIPSWITCH CONFIGURATION

**WARNING:** Failure to properly configure the dipswitch will result in damage to the unit and void the warranty! Before installing and wiring the GE Time Switch, proper configuration must be selected. This is accomplished as follows:

### INPUT VOLTAGE DIP SWITCH SETTING:

1. Do not apply power to the timer prior to setting correct Input Voltage DIP switch.
2. Determine the input voltage which will be applied to the timer (i.e. L1 and L2/N terminals, see wiring diagrams)
3. Set the DIP switch according to the diagram below.




**NOTE:** Unit is shipped with DIP switches set for 277VAC Input Voltage
**CAUTION:** Do not check circuits by "sparking" wires to terminals. Damage to the timer may result.

**NOTE:** For outdoor locations (model GE 15252),, rain tight or wet location conduit hubs that comply with requirements of UL 514B (standard for fittings for conduit and outlet boxes) must be used.

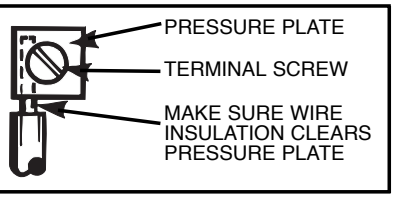
1. Remove 2 screws retaining the interior cover panel and remove panel by prying out with a thin blade at the top.. Select knockouts to be used. Remove the inner 1/2" knockout by inserting a screwdriver in the slot and carefully punch knockout loose. Remove slug. If the 3/4" knockout is required, remove the outer ring with pliers after removing the 1/2" knockout. Smooth edges with knife if necessary.
2. Place enclosure in desired mounting location and mark the three mounting holes.
3. Drill holes for #10 screws, start screws in holes.
4. Place enclosure over screws and tighten screws.
5. Connect conduit hubs to conduit before connecting the hubs to the enclosure. After inserting hubs into enclosure, carefully tighten hub lock nut. Do not over-tighten.
6. Install in accordance with all applicable National and Local code requirements. See Figure 1 and wiring diagrams.
7. Replace interior cover panel and 2 screws.

**GROUNDING:** This enclosure is of plastic construction and does not require a ground connection and does not require bonding in pool applications.

This enclosure does not provide grounding between conduits. When using non-metallic conduit or cable, connect the ground wires of all cables together with a wire nut. When metallic conduit is used, use grounding type bushings and a jumper wire between each conduit.

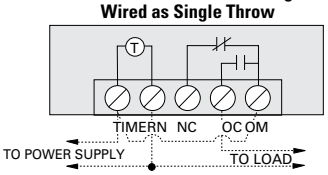
**FIGURE 1**

| MINIMUM COPPER WIRE SIZE (AWG) | MAX. LOAD (AMP) | MIN. INSUL-ATION TEMP(°C) | 75°C INSULATION MAX. MOTOR LOAD (HP) | | | |
|---|---|---|---|---|---|---|
| | | | SINGLE PHASE | | 3 PHASE | |
| | | | 120 V. | 240 V. | 208 V. | 240 V. |
| 14 | 15 | 60 | 1/2 | 2 | N/A | N/A |
| 12 | 20 | 60 | 1 | 2 1/2 | | |
| 10 | 30 | 60 | 2 | 3 | | |
| 8 | 40 | 105 | - | 5 | | |

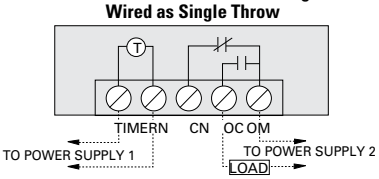



## Typical Wiring Diagrams—SPDT

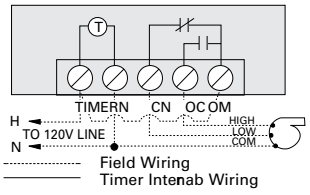
**Timer and Load, Same Voltage Wired as Single Throw**




**Timer and Load, Different Voltage Wired as Single Throw**

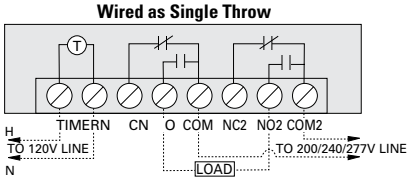



**120V Two Speed Fan Wired as Double Throw**

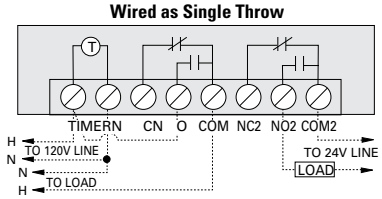



## Typical Wiring Diagrams—DPDT

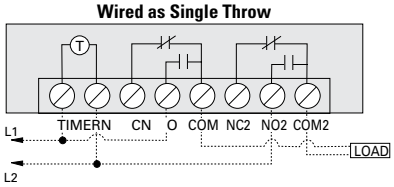
**120V Timer, 200/240/277V Load Double Break Wired as Single Throw**




**120V Timer, 120V Load and 24V Load Wired as Single Throw**




**200/240/277V Timer, 200/240/277V Load, Double Break Wired as Single Throw**




## OPERATING INSTRUCTIONS

## BASIC SETTINGS:

### Initial Set Up:

1. Push the "R" button before programming to clear out any settings. Once the "R" button is pressed the screen will begin to flash. A paperclip may be needed for this step.
   (If the "R" button appears to stick down, use a toothpick to maneuver it until it pops back up. The screen will flash if the button is popped up successfully.)
2. Press the "Clock" button and the screen will stop flashing and be ready for programming.


### Setting the Current Time:

1. Press and Hold the "Clock" button during the entire setting.
2. Press the "H+" button to set the hours.
3. Press the "M+" button to set the minutes.
4. Press the "Day" button to set the day of the week.
5. Release the "Clock" button.

### Programming ON/OFF Settings:

1. Press the "Timer" button once and the TIMER 1 ON - - : - - appears.
2. Press the "H+" and "M+" button to set the hours and minutes to the desired time.
3. Press the "Day" button to select the day(s) the setting will be active. Refer to the Multiple Weekday Group below to see the available settings.
4. Press the "Timer" button to store the setting and proceed to the next setting TIMER 1 OFF - - : - -.
5. Repeat for all remaining setting options (9 Total ON/OFF settings). Once completed press the "Clock" button to return to the main display.

### Multiple Weekday Groups:

Apart from individual week days, pressing the "Day" button also selects multiple day combinations such as:

- Monday thru Friday
- Saturday & Sunday
- Monday thru Saturday
- Monday & Wednesday & Friday
- Tuesday & Thursday & Saturday
- Monday thru Wednesday
- Thursday thru Saturday
- Monday thru Sunday

After setting a single day or a multi-day-combination the programmed timer settings will be carried out on each of the week-days at the same time.

### Programming Countdown Operation:

1. Press the "Timer" button to scroll through the 9 events settings to get to the ON C setting.
2. Press the "Override" button to select whether the timer will turn ON or OFF during teh countdown period.
3. Press the "H+" and "M+" buttons to set the hours and minutes of the countdown.
4. Press the "Clock" button to store the setting and return to the current time display. See the diagram below for more information.

## ADVANCED SETTINGS

### Activate the Countdown Feature:

1. Press the “Clock” and “Override” button at the same time to start the countdown function.
2. Press the “Override” button to pause and continue the countdown function.
3. Press the “Clock” button to go view the current time display.

### Manual Override:

The timer comes with the ability to control the ON and OFF function while the timer is deactivated. Press and Hold the “Override” button to switch between timer mode and manual mode. Timer mode will be indicated by an A next to the ON or OFF. When the timer is in manual mode (not controlled by timer) the A will not appear on the display. Any time the “A” is on the display the timer is in control and will always follow the programmed settings (even if it is temporarily deactivated by moving from ON to OFF or OFF to ON).

### Random, ON/OFF Setting:

This feature allows the timer to switch ON and OFF at random times. It is particularly useful in helping to prevent house burglary as the timer is not switching ON and OFF at regular times. The programmed settings set will be executed in a random delay varying within 30 minutes. This function will only operate if one or more programmed switching commands are set.

1. Press both “Day” and “H+” buttons at the same time. The display will show the “TIMER” symbol blinking. The random feature is now activated.
2. To turn the random feature off repeat step 1.

### Summer Time Feature (DST):

Press the “H+” and “M+” buttons for 3 seconds to advance the current time 1 hour, SUMMER should appear on the display. Repeating this process will decrease the time by 1 hour and the SUMMER will disappear.

### Power Back Up Feature:

In the event of a power failure, the timer will retain its settings for an estimated 3 months assuming the power back up is fully charged.

### Button Lock:

This function allows the user to lock the buttons so that they are not accidentally pressed.

1. Press and HOLD the “Clock” button for more than 5 seconds. An “  “ icon will appear on the display. The buttons are now locked.
2. To unlock the buttons repeat this step.

**Note:**

“  “ Flashing: the timer is in the manual mode with key lock.

“  “ Not flashing: the timer is in the timer mode with key lock.

### Lockout a Programmed Setting (Skip a Setting):

1. Press the “Timer” button to scroll to the setting that needs to be skipped.
2. Press the “Override” button to lockout the time setting. The display will display “H I : d E” and lock the hours and minutes setting.
3. Press the “Override” button again to recall the setting time. (Will not work for Lockout Countdown feature)