

# Digital Programmable Wall Box Timer

Cat. No. TS300 - 120-277VAC, 50/60Hz

**LEVITON**<sup>®</sup>

## WARNINGS AND CAUTIONS

- **TO AVOID FIRE, SHOCK, OR DEATH: TURN OFF POWER** at circuit breaker or fuse and test that power is off before wiring!
- To be installed and/or used in accordance with electrical codes and regulations.
- Confirm that device ratings are suitable for application prior to installation.
- Use this device **with copper or copper clad wire only**.
- Connect to field wiring rated for 60° C or greater.
- **DO NOT** install if product appears to be damaged.
- For indoor use only.
- Read these instructions before installation and retain for future reference.

DI-000-TS300-05A

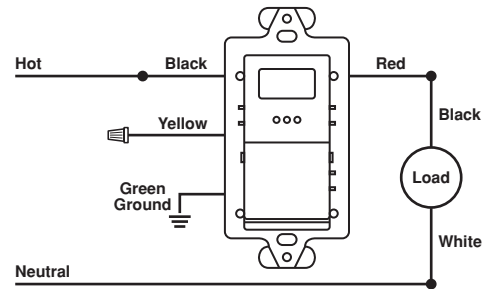
## INSTALLATION INSTRUCTIONS

**ENGLISH**

### WIRING FOR TS300 SERIES

1. **WARNING: TO AVOID FIRE, SHOCK, OR DEATH: TURN OFF POWER** at circuit breaker or fuse and test that power is off before wiring!
  2. Connect the timer black wire to line. Connect the timer red wire to the load. Cap unused yellow wire.
  3. Connect the green wire to the ground. Unit must be properly grounded to operate.
  4. Mount the timer inside electrical box using 2 mounting screws provided.
  5. Turn power ON at the electrical panel.
  6. Timer dip switches are factory preset for 2 hour operation. Change dip switches and program only if custom setting is desired. Follow SET-UP INSTRUCTIONS.
  7. Close timer cover and install wall plate. Settings are now tamper resistant.
- NOTE:** Wall plate must be removed to open timer cover and change settings.

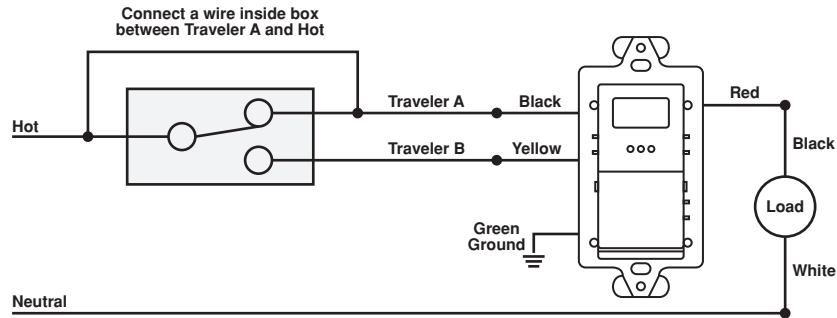
Figure 1



### RETROFITTING A TS300 TO EXISTING 3-WAY OR 4-WAY SWITCH

1. **WARNING: TO AVOID FIRE, SHOCK, OR DEATH: TURN OFF POWER** at circuit breaker or fuse and test that power is off before wiring!
  2. Disconnect the second 3-way switch.
  3. Connect the timer red wire to the load. Connect the timer black wire to "Traveler A" and the timer yellow wire to "Traveler B". Connect the green wire to the ground. Unit must be properly grounded to operate.
  4. Mount the timer inside electrical box using two mounting screws provided.
  - 5a. **(3-way switch wiring Figure 2):** At switch #1 connect a wire between the Hot leg of the 3-way and "Traveler A" inside of that switch's gang-box.
  - 5b. **(4-way switch wiring Figure 3):** Replace wall switches with a properly rated momentary switch. At switch #1, connect "Traveler A" to Hot leg and one side of momentary switch. Connect "Traveler B" to other side of momentary switch. At switch #2, connect "Traveler A" together and to one side of momentary switch. Connect "Traveler B" together and to other side of momentary switch.
  6. Turn power ON at the electrical panel.
  7. Timer dip switches are factory preset for 2 hour operation. Change dip switches and program only if custom setting is desired. Follow SET-UP INSTRUCTIONS.
  8. Close timer cover and install wall plate. Settings are now tamper resistant.
- NOTE:** Wall plate must be removed to open timer cover and change settings.  
**NOTE:** Maximum wire length from the 3-way (multi-way) switch to timer is 100 ft.

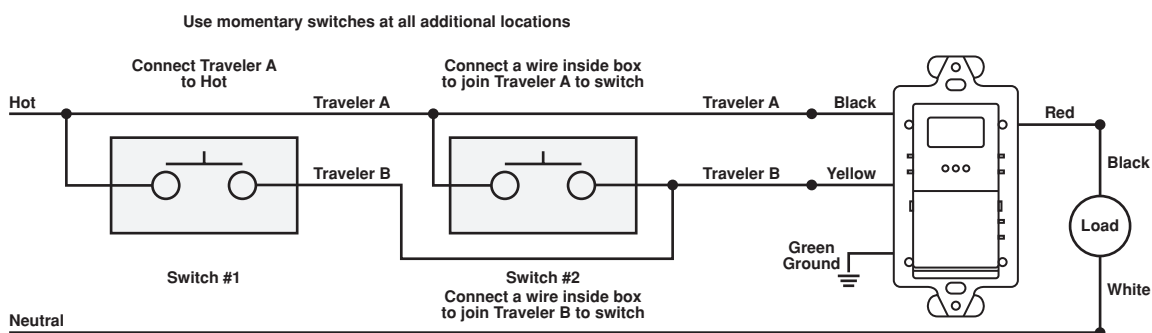
Figure 2



### SET FOR 4-WAY OPERATION

The TS300 timers are factory preset for 3-way wiring with a maintained wall switch. Optional 4-way (multi-way): Open timer door and press reset button. Unit will display 3-W representing 3-way. Press the TIMER button to change screen to 4-W. After 10 seconds the display will blink twice. Display will confirm operating hertz (60 typical). Unit is now ready to program. Momentary switches must be used as additional switch positions in the 4-way (multi-way) setting. Refer to wiring diagrams.

Figure 3



WEB VERSION

## SET-UP INSTRUCTIONS FOR THE TS300 SERIES

When powering up for the first time, allow 1 minute for unit to show OFF on screen. If the screen is blank after 1 minute, press RESET button, see **Figure 4**.

### Default Set 2 hours

The TS300 timers are factory preset to meet newer energy code override mandates. No adjustment is required. This setting will provide a two hour maximum operating time before shut off. The scroll feature is active to allow the user to change the operating time with the maximum time setting at two hours.

DIP SWITCHES					
1 4 Hour	2 2 Hour	3 Limit	4 Scroll	5 Beeper	6 Blink
OFF	ON	OFF	ON	OFF	OFF

Close the timer door and unit is ready. One press of the bottom cover turns the load ON and load will stay ON until a countdown to the preset off time. Pressing the bottom cover again will turn load OFF.

Figure 4

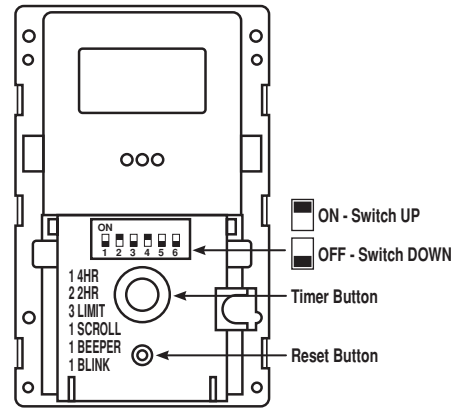
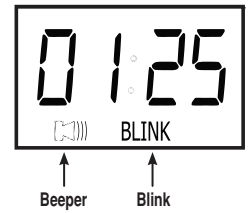


Figure 5



## SET FOR OTHER THAN FACTORY DEFAULT OPERATION

- 4HR:** Set ON for preset 4 hour maximum countdown when 2HR is set to OFF. Also used in custom time programming.
- 2HR:** Set ON for preset 2 hour maximum countdown when 4HR is set to OFF. Also used in custom time programming.
- LIMIT:** Used with programming sequence. Switch from ON to OFF to limit scroll to match custom time.
- SCROLL:** Set ON allows timer to scroll to a shorter run time. Set OFF to disable. Also used in programming sequence. Switch from ON to OFF to set a custom time. The time scrolls in steps:
  - 5 minute steps from 5 minutes to 1 hour.
  - 10 minute steps from 1 to 4 hours.
  - 30 minute steps from 4 hours to 12 hours.
  - 1 hour steps from 12 to 24 hours.

- BEEPER:** Set ON activates feature for beep warning every 15 seconds starting at 2 minutes before OFF. See **Figure 5**.
- BLINK:** Set ON activates feature for load flash 2 minutes before OFF. See **Figure 5**.

## SET FOR 4 HOUR

Change the dip switch settings, as shown below, to provide four hour maximum operating time before shut off as allowed by some energy codes. The scroll feature is active to allow the user to change the operating time with the maximum time setting at four hours.

DIP SWITCHES						
1 4 Hour	2 2 Hour	3 Limit	4 Scroll	5 Beeper	6 Blink	
OFF	ON	OFF	ON	OFF	OFF	Factory Default Settings
ON	OFF	OFF	ON	OFF	OFF	Set DIP switches as shown

## ACTIVATE WARNING FEATURES

The TS300 series provides for a warning 2 minutes before shutting load off. The optional audible warning beeps every 15 seconds for the 2 minute warning period. The optional blink warning will turn off the load for 1 second at 2 minutes before shut off. To activate one or both, change the switch matching the feature to the ON position. An icon will confirm these features are active. See **Figure 5**.

DIP SWITCHES						
1 4 Hour	2 2 Hour	3 Limit	4 Scroll	5 Beeper	6 Blink	
OFF	ON	OFF	ON	OFF	OFF	Factory Default Settings
OFF	ON	OFF	ON	OFF	ON	Set BLINK to ON

## SET A CUSTOM TIME (SOMETHING OTHER THAN 2 OR 4 HOURS)

The TS300 series may be programmed to a custom length of time for countdown. The time can range between 5 minutes and 24 hours. The scroll feature is active to allow the user to change the operating time up to the custom time setting.

DIP SWITCHES						
1 4 Hour	2 2 Hour	3 Limit	4 Scroll	5 Beeper	6 Blink	
OFF	ON	OFF	ON	OFF	OFF	Factory Default Settings
ON	ON	ON	ON	OFF	OFF	1. Set DIP switches as shown 2a. Press and release TIMER button 2b. Wait for screen to show countdown 2c. Press and hold TIMER button 2d. Release button when desired time shows
ON	ON	OFF	OFF	OFF	OFF	3. Set LIMIT and SCROLL switch to OFF
ON	ON	OFF	ON	OFF	OFF	4. Set SCROLL switch to ON

## SET A CUSTOM TIME AND ALLOW SCROLL UP TO 24 HOURS

The TS300 series may be programmed to a custom length of time for countdown. The scroll feature is active to allow the user to change the operating time up to the maximum time setting of 24 hours.

DIP SWITCHES						
1 4 Hour	2 2 Hour	3 Limit	4 Scroll	5 Beeper	6 Blink	
OFF	ON	OFF	ON	OFF	OFF	Factory Default Settings
OFF	OFF	OFF	ON	OFF	OFF	1. Set DIP switches as shown 2a. Press and release TIMER button 2b. Wait for screen to show countdown 2c. Press and hold TIMER button 2d. Release button when desired time shows
OFF	OFF	OFF	OFF	OFF	OFF	3. Set SCROLL switch to OFF
OFF	OFF	OFF	ON	OFF	OFF	4. Set SCROLL switch to ON

## OPERATIONS

Once set-up is complete, attach the supplied decorator-type wallplate to the unit. The bottom cover becomes the switch to control the timer operations. Press the bottom cover once, Timer goes to preset time, turns load ON, and starts countdown interval to automatic OFF. Pressing the bottom cover again will turn load OFF. If the SCROLL feature is active, press and hold the main bottom cover and timing will change. Release when the desired time is shown. In the OFF mode, LCD screen scrolls timer interval message every 15 seconds (SET - For - HH:MM - LOAD - OFF). Example of 3 hour default message: SET - For -02:00 • LOAD -OFF.

### FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.

### LIMITED 5 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for five years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option. For details visit [www.leviton.com](http://www.leviton.com) or call 1-800-824-3005. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to five years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.