

# ELECTRONIC INTERVAL/COUNTDOWN TIMER OPERATING INSTRUCTIONS



<http://waterheatertimer.org/Intermatic-timers-and-manuals.html#ff>

## ET 616 2011 - This timer is discontinued

The ET616 is a wall mounted Electronic Time Switch which automatically turns lights or other loads off after a preset time period. When used for control of lights in a conference room, rest room, or similar temporary use room, it functions like a standard light switch, turning the lights ON when the button is pressed, and OFF when pressed again. If left ON, it will automatically go off after a time period settable from 1 minute to 12 hours via tamper-proof DIP switches. It is also suitable for the control of tanning beds, fans, heaters, chemical pumps, laboratory apparatus, and other applications requiring a preset ON time and automatic shutoff.



### FEATURES

- Operates on either 120V or 277VAC (50/60Hz)
- Mounts in standard wallbox with Decorator style wall plate, single or multi-gang
- Easy installation – Installs in minutes
- Single button ON/OFF operation
- Automatic shutoff after preset time period
- Backlighted LCD displays countdown time
- Display Flashes, and Audible Beep 1 minute before time-out
- If button is pressed during last minute of countdown, switch remains on and timer is reset
- Preset time adjustments; 5, 15, 30, 60 minutes, 3, 6, 9, 12 hours
- Time scrolling option adjusts time up or down
- Switch holds position during a power failure (ON or OFF), restarts at preset time when power is restored
- UL and CUL Listed

**NOTE:** On initial installation or after prolonged power failure, it is necessary to press the RESET button.

### SPECIFICATIONS

**Input Voltage:** 120V or 277VAC (50/60 Hz)

**Timing Intervals:** 5, 15, 30, 60 minutes  
3, 6, 9, 12 hours

**Switch Ratings:**

**At 120VAC:** 1,000W Tungsten  
800W Ballast  
8.3A Resistive

**At 277VAC:** 1,500W Tungsten  
1,200W Ballast  
5.4A Resistive

**Operating Temperature:**

0° to 100°F (–18° to 38°C)

**Operating Humidity:**

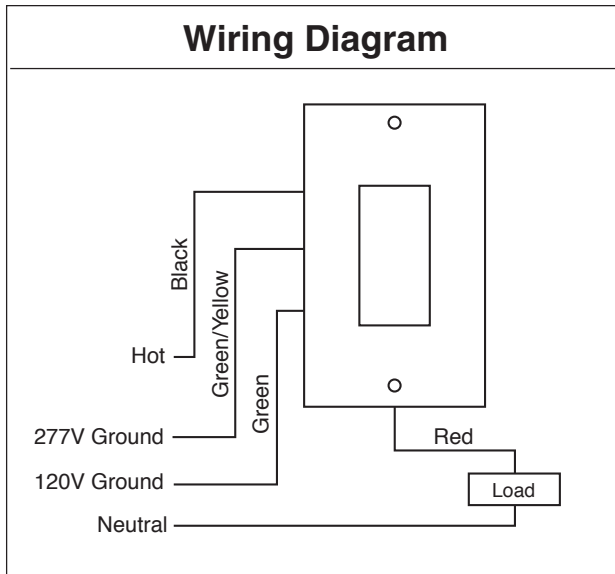
0-95% RH Non-Condensing

**Faceplate Color:** White

**Timing Accuracy:** Less Than 1% Deviation

**Wiring Connections:** 6" Lead wires

# Operating Instructions



**NOTE:** 120VAC—Green wire can be connected to Neutral  
277VAC—Green/Yellow wire can be connected to Neutral

## Installation Instructions

Before installing this product, read ALL instructions carefully. Installation should be performed by a licensed electrician. Install in accordance with all applicable National and Local code requirements.

### Warning: The ET616 must be properly grounded!

1. Disconnect power at breaker or fuse panel.
2. Wire as shown in diagram above.
3. Cap unused ground wire.
4. Set "DIP" switches as shown in Table 1.
5. Insert ET616 into wall box, attach with screws provided.
6. Install wall plate (single gang included) with screws provided.
7. Restore power.
8. Allow 15 seconds for capacitor to charge – LCD will display "OFF". If "OFF" is not displayed after 15 to 20 seconds, press "Reset" button (located under the push button to left of speaker – it may be necessary to remove the wall plate.)
9. To operate, press push button. Complete operation is described below.

## Dip Switch Setting Options

The following functions may be set via the concealed dip switch:

1. **Countdown Time:** The length of time the switch will be ON when activated by the push-button. May be set to 5, 15, 30, or 60 minutes; 3, 6, 9, or 12 hours.
2. **Warning Beeper:** The device will emit a beeping sound when the countdown time reaches one minute, and will continue to beep every 5 seconds to the end of the countdown period. May be selected or omitted.
3. **Warning Flash:** The switch will turn off for one second when the countdown time reaches one minute, giving warning that the lights will go out. May be selected or omitted.
4. **Scroll Toggle:** The device may be set to allow the countdown time to be changed. May be selected to either scroll the time up or scroll the time down.

## Setting The Dip Switch

The dip switch is concealed under the push-button so that it can only be accessed by authorized personnel.

1. Remove the push-button by inserting a small screwdriver in the slot below the push-button and gently prying up.
2. The dip switch contains 6 switches. The upward position is on, downward is off. Move the switches to the desired positions with a pen or small screwdriver per table 1.
3. Replace the push-button by inserting the flange on top of the push-button under the LCD and gently pressing the switch inward.

## Operation

1. The switch is turned off and on just as an ordinary light switch by pressing the push-button.
2. At the end of the countdown period the switch will turn off.
3. Pressing the push-button will turn the switch on and reset the countdown time.
4. By pressing and holding the push-button for a few seconds the display will flash and the countdown time will scroll upward or downward depending on the dip switch selection. The time may be stepped by repeatedly pressing the push-button or scrolled rapidly by pressing continuously.

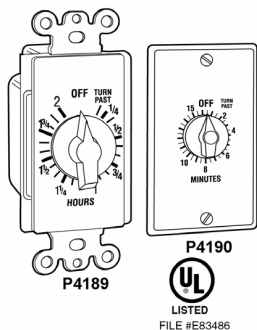
**Table 1: Dip Switch Settings** 0 = OFF X = ON

Dip Switch Number	1	2	3	4	5	6
<b>Time-Out Delay</b>						
5 minutes	0	0	0			
15 minutes	0	0	X			
30 minutes	0	X	0			
60 minutes	0	X	X			
3 hours	X	0	0			
6 hours	X	0	X			
9 hours	X	X	0			
12 hours	X	X	X			
<b>Scroll Toggle</b>						
Time Scroll DOWN				0		
Time Scroll UP				X		
<b>Flash Option</b>						
Flash OFF					0	
Flash ON					X	
<b>Beeper Option</b>						
Beeper OFF						0
Beeper ON						X

# TIMERS

## GRASSLIN KLT SERIES COUNTDOWN/TWIST TIMERS

### SPRING WOUND INTERVAL/COUNTDOWN TIME SWITCH



- Timing ranges from 5 minutes to 12 hours.
- SPST 20 A, 2 HP switch.
- Decorator style dial plate fits both standard and decorator wallplates.
- Aluminum wallplate available.
- Fits in single or multigang wallboxes.
- May be flush panel mounted.
- Normally closed version (15 and 30 min. only)

TIMERS

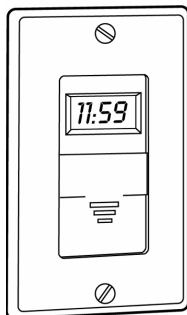
#### PART NO

NO-HOLD MODELS WITH IVORYKNOB & PLATE	HOLD MODELS WITH IVORYKNOB & PLATE	TIME CYCLE
KLT-5M	KLT-5MH	0-5 Minutes
KLT-15M	KLT-15MH	0-15 Minutes
KLT-15MC	—	0-15 Minutes (Normally Closed)
KLT-30M	KLT-30MH	0-30 Minutes
KLT-30MC	—	0-30 Minutes (Normally Closed)
KLT-60M	KLT-60MH	0-60 Minutes
KLT-2H	KLT-2HH	0-2 Hours
KLT-4H	KLT-4HH	0-4 Hours
KLT-6H	KLT-6HH	0-6 Hours
KLT-12H	KLT-12HH	0-12 Hours

Example: KLT-30M-W — Add “-W” to above for white knob and plate.

Example: KLT-30MH-A — Add “-A” to above for aluminum plate and plastic knob.

## GRASSLIN ET 616 ELECTRONIC COUNTDOWN TIMER



- Electronic version of the manual countdown timer.
- Operates on 120 V or 277 VAC — No neutral wire required.
- Mounts in standard wallbox.
- Single button On/Off operation.
- Backlighted LCD display.
- Preset time countdown; 5, 15, 30, 60 minutes, 3, 6, 9, 12 hours.
- Switch holds position during a power failure (on or off), restarts at preset time when power is restored.
- UL and cUL listed.



#### P4191

PART NO	VOLTAGE	SWITCH RATING	COUNTDOWN TIMING
ET616	120 or 277 VAC, 50/60 Hz	1000 W (Tung.) @ 120 V; 800 W (Bal.) @ 120 V; 1500W (Tung.) @ 277 V; 1200W (Bal.) @ 277 V	5, 15, 30, 60 Min. 3, 6, 9, 12 Hr.

<http://waterheatertimer.org/Countdown-timer-horsepower-ratings.html#Grasslin>