



# 365-Day Electronic Astronomic Time Switches



## Applications:

- Schools
- Offices
- Airports
- Stores
- Hotels
- Restaurants
- Factories
- Parks
- Apartments

## For Controlling:

- Water Heaters
- Parking Lot Lighting
- Commercial Ovens
- Interior Lighting
- Bells & Signals
- HVAC Equipment
- Fans/Blowers/Pumps
- Livestock Feeders
- Poultry Equipment
- Process Equipment

California Title 24 Approved



UL916  
E76987



UL917  
C22.2-177  
LR3730



-40°F  
(-40°C)  
to  
155°F  
(68°C)

## ET70000 Series 365-Day Time Switch (8 & 16 Circuit Models)

These electronic time switches provide to-the-minute programming for 7-day or full year load control. Features: 12/24 Hr Clock Format, 4,000+ ON/OFF Events, 99 Holiday Schedules, and Auto Daylight Savings Time Adjustment. Flexible load control is enhanced by Astro, Variable Pulse, and Interval options as required for outdoor lighting control, bell ringing and after-hour temporary override respectively. Non-volatile memory maintains all programmed switching times for the life of the time switch. A factory installed field replaceable lithium battery maintains accurate time keeping and calendar information for a minimum of 8 years.

### Specifications

**Case** – 8-Circuit NEMA 3R - Heavy duty .048" steel in gray finish; 10-3/4" (27.3 cm) High, 11-1/2" (29.2 cm) Wide, 4-3/4" (12.1 cm) deep with lockable hasp. 16-Circuit NEMA 3R - Heavy duty .060" steel in gray finish; 20-5/8" (52.4 cm) High, 13-1/4" (33.7 cm) Wide, 5-1/8" (13.0 cm) Deep with lockable hasp.

**ON/OFF Events** – 8 & 16-Circuit - 4,000+ Events.

**Special Voltages and Cycles** – Line voltage models 50 or 60 Hz; Low voltage models 60 Hz 24 Volts.

**Switch Rating** – Each Pole; 20 amp resistive/general purpose, 12–277 Volts AC; 20 amp resistive/general purpose, 28 Volts DC; 20 amp ballast, 120–277 VAC; 1 HP, 120 VAC 60 Hz; 98 LRA; 22 FLA; 2 HP, 240 VAC 60 Hz; 80 LRA; 30 FLA; 5 amp tungsten, 120–240 VAC; 470 VA pilot duty, 12–240 VAC; TV-5, 120–240 VAC

**Carry-over** – Non-volatile memory requires no backup. Time keeping and calendar data maintained within 0.01% accuracy for minimum of 8 years with one factory installed, field replaceable lithium coin cell.

**Wiring Terminals** – #18 to #10 AWG wire.

**Minimum ON/OFF Times** – 1 minute.

**Maximum ON/OFF Times** – 6 days 23 hours 59 minutes.

### Engineering Specification

#### 365 Day 8 & 16 Circuit Electronic Astronomic Time Switches

The time switch shall be a solid state electronic control capable of permitting 4000+ ON/OFF set points to be distributed on independent daily schedules through a 7-day time period and across 99 separate holiday schedules. The time switch shall include a 7-day repeat feature for simplifying programming of identical set points. The time and set points shall be programmable to the nearest minute with a minimum ON duration of 1 minute and a maximum ON duration of 6 days, 23 hours, 59 minutes. The timer shall have a digital LED readout to show day-of-week and time-of-day using 12/24 hour time format. The time switch shall provide a manual override control for both temporary and permanent override. Time switch shall operate over a temperature range of -40°F (-40°C) to 155°F (68°C). A non-volatile memory shall maintain all program data for the life of the time switch without the need for battery backup. The time switch shall include a factory installed lithium battery backup which shall maintain clock time and calendar data for 8 years minimum. Switch configuration to be SPDT for each circuit with a UL 916 Energy Management Equipment listed rating of: Normally Open Contacts Each Pole; 20 amp resistive/general purpose, 12-277 Volts AC; 20 amp resistive/general purpose, 28 Volts DC; 20 amp ballast, 120-277 VAC; 1 HP, 120 VAC 60 Hz; 98 LRA; 22 FLA; 2 HP, 240 VAC 60 Hz; 80 LRA; 30 FLA; 5 amp tungsten, 120-240 VAC; 470 VA pilot duty, 12-240 VAC; TV-5, 120-240 VAC; 10 Amp Resistive/general purpose, 12-277 VAC; 10 Amp Resistive/general purpose, 28 Volts DC; 3 Amp ballast, 120-277 VAC; 1/4 HP, 120 VAC 60 Hz; 1/2 HP, 240 VAC 60 Hz; 30 LRA; 12 FLA; 275 VA pilot duty, 12-240 VAC. The time switch shall be enclosed in a lockable steel \_\_\_\_\_ (NEMA 1) (NEMA 3R) enclosure. The time switch shall be powered by a \_\_\_\_\_ (user selectable 120, 208, 240 or 277 VAC 50 or 60 Hz) (24 VAC 60 Hz) source. The time switch shall be INTERMATIC Model \_\_\_\_\_ (ET70815CR or ET70815CR24 8-circuit) (ET71615CR or ET71615CR24 16-circuits).

Model#	Circuits	Switch	Clock Voltage	Amp Rating	HP Rating	Enclosure
ET70815CR <sup>12</sup>	8	SPDT	120/208/240/277	20	1HP / 2HP	NEMA3R
ET70815CR24 <sup>12</sup>	8	SPDT	24	20	1HP / 2HP	NEMA3R
ET71615CR <sup>12</sup>	16	SPDT	120/208/240/277	20	1HP / 2HP	NEMA3R
ET71615CR24 <sup>12</sup>	16	SPDT	24	20	1HP / 2HP	NEMA3R

<sup>1</sup> Multi-Circuit Models feature contacts that can be field configured to act independently operated SPDT, or simultaneously operated, or independently pulsed SPDT for contactor and bell ringing applications.

<sup>2</sup> Complies with California Title 24 for multi-level outdoor lighting control.