



# 7-Day Electronic Astronomic Time Switches



## ET8000 Series 7-Day Astronomic Time Switch (Tracks Sunrise & Sunset)

Intermatic's Electronic Astronomic 7-Day Time Switch automatically switches loads according to a preset weekly schedule with to-the-minute accuracy. The astronomic feature provides sunset ON and sunrise OFF settings to eliminate the need for separate photo control devices. The independent 7-day programming provides complete flexibility for applications where load switching differs each day of the week. Astronomic programming can be combined with independent programs to provide a sunset ON and timed OFF program.

### Specifications

**Case Options** – Standard: NEMA 1 Grey Painted Drawn Steel; 'R' Option: NEMA 3R Grey Painted Drawn Steel; 'PD82' Option: NEMA 3R Grey High-Impact UV Resistant Polycarbonate Plastic with Clear Cover

*Note: The electronic mechanism snaps into the standard Intermatic time switch case, replacing mechanical mechanisms, if desired.*

**Knockouts** – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.

**Optional Enclosures** – See Time Switch Cases for optional enclosures.

**Special Voltages and Cycles** – ALL models 50 or 60 Hz.

**Switch Rating** – 30 Amp Inductive/Resistive, 24 / 120 / 240 / 277 VAC 60 Hz; 20 Amp Resistive, 28 VDC; 1 HP 120 VAC 60 Hz; 2 HP 240 VAC 60 Hz; 5 Amp Tungsten, 120 / 240 / VAC 60 Hz; 20 Amp ballast, 120-277 VAC 60 Hz. ET100C same ratings for 120 Volt loads only. ET1115 models normally closed contact ratings: 10A Resistive/General purpose, 12 - 277VAC; 10A Resistive/General purpose, 28VDC; 3A Ballast, 120 - 277VAC; 1/4 HP, 120 VAC; 1/2 HP, 240 VAC; 30 LRA; 12 FLA; 275 VA pilot duty, 120 - 240 VAC

**Pulse Feature** – 2-Circuit models feature 2-Second pulse option for contactor and bell ringing applications.

**Auto DST** – Automatic Adjustment for Daylight Saving Time (DST)

**Carry-over** – Field replaceable "AAA" batteries maintain program and accurate time keeping for 3 years minimum. Up front replacement does not require removal of mechanism.

**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

7 Day Electronic Time Switch

The time switch shall be a solid state electronic control capable of permitting 28 ON/OFF set points per circuit to be distributed on a weekly or daily schedule with 1 astro ON and 1 astro OFF set point per circuit. 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 and 59 minutes. The timer shall have a digital LCD readout to show time-of-day using 12 hour AM/PM indicator. The time switch shall provide for automatic adjustment for Daylight Saving Time (DST). 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).

Industrial grade AAA alkaline batteries shall carryover time-of-day and date for a minimum of 3 years. Program data shall be stored in non-volatile memory. Switch configuration to be \_\_\_\_\_ (SPST), (DPST) or (SPDT) with an agency listed rating of: 30 amp Inductive/Resistive, 24/120/240 Volts AC, 60 Hz; 20 amps Resistive, 28 VDC; 1 HP, 120 Volts AC, 60 Hz; 2 HP, 240 Volts AC, 60 Hz; 5 amps Tungsten, 120/240 Volts AC, 60 Hz; 20 amps Ballast, 120-277 Volts AC, 60 Hz. The time switch shall be powered by a 120-277 volts 50/60 Hz source. The time switch shall be enclosed in a lockable \_\_\_\_\_ (NEMA 1) or (NEMA 3R) rated enclosure. The time switch shall be listed under UL category 916 Energy Management Equipment and shall be INTERMATIC Model \_\_\_\_\_ (ET1705C/CR/CPD82), (ET1715C/CR/CPD82), or (ET1725C/CR/CPD82).

| Model#                     | Circuits | Switch | Clock Voltage   | Amp Rating | HP Rating | Enclosure |
|----------------------------|----------|--------|-----------------|------------|-----------|-----------|
| ET8015C                    | 1        | SPST   | 120/208/240/277 | 30         | 1HP / 2HP | NEMA1     |
| ET8015CPD82 <sup>1</sup>   | 1        | SPST   | 120/208/240/277 | 30         | 1HP / 2HP | NEMA3R    |
| ET8015CR                   | 1        | SPST   | 120/208/240/277 | 30         | 1HP / 2HP | NEMA3R    |
| ET8115C                    | 1        | SPDT   | 120/208/240/277 | 10/30      | 1HP / 2HP | NEMA1     |
| ET8115CPD82 <sup>1</sup>   | 1        | SPDT   | 120/208/240/277 | 10/30      | 1HP / 2HP | NEMA3R    |
| ET8115CR                   | 1        | SPDT   | 120/208/240/277 | 10/30      | 1HP / 2HP | NEMA3R    |
| ET8215C <sup>2</sup>       | 2        | SPST   | 120/208/240/277 | 30         | 1HP / 2HP | NEMA1     |
| ET8215CPD82 <sup>1,2</sup> | 2        | SPST   | 120/208/240/277 | 30         | 1HP / 2HP | NEMA3R    |
| ET8215CR <sup>2</sup>      | 2        | SPST   | 120/208/240/277 | 30         | 1HP / 2HP | NEMA3R    |

<sup>1</sup> CPD82 Models feature NEMA 3R high impact polycarbonate plastic case with clear cover for easy viewing of time switch mode and current status.

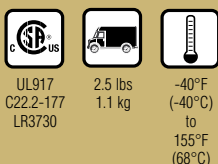
<sup>2</sup> ET8215 Models feature contacts that can be field configured to act as two independently operated SPST, one simultaneous operated DPST, or independently pulsed SPST for contactor and bell ringing applications.

✓ Auto Daylight Saving Time Adjustment

✓ Multi-Volt 120, 208, 240 & 277 VAC

✓ Pulsed Contact Feature

✓ California Title 24 Approved



CPD82

NEMA 3R with clear cover