



7-Day Electronic Time Switches



Applications:

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

For Controlling:

- Water Heaters
- Parking Lot Lighting
- Commercial Ovens
- Interior Lighting
- Air Conditioners
- Fans/Blowers/Pumps
- Livestock Feeders
- Poultry Equipment
- Process Equipment



UL917
C22.2-177
LR3730



2.5 lbs
1.1 kg



-40°F
(-40°C)
to
155°F
(68°C)

ET170 Series 7-Day Time Switch (Permits Different Operation Each Day)

These electronic time switches provide to-the-minute programming for accurate load control and reduced energy costs. Up to 20 set points or events (10 ON/10 OFF or any combination) can be preset to automatically repeat on a weekly or daily basis. The program can be overridden at any time by placing the selector switch in the Manual position. These time switches provide for true 7-day load control with up to 140 operations (70 ON/70 OFF or any combination) each week. Model ET279C provides 20 operations or momentary contact closures of 1 to 8 seconds (ten each or any combination) for two independent circuits.

Specifications

Case – NEMA 1 – Drawn steel 7-3/4" (19.7 cm) High, 5" (12.7 cm) Wide, 3" (7.6 cm) Deep in gray finish.

NEMA 3R – Drawn steel 9-3/8" (23.8 cm) high, 5-1/2" (14.0 cm) wide, 3-5/8" (9.0 cm) deep in gray finish.

Both types include permanently attached side hinged door with lockable hasp. Mounting holes and/or mounting bracket included. Separate grounding terminal.

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. Model ET175C 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

Carry-over – Field replaceable "AA" batteries maintain program and accurate time keeping for 3 years minimum.

Up front replacement does not require removal of mechanism or field wiring.

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 20 ON/OFF set points to be distributed on a daily or weekly schedule. 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 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 AA alkaline batteries shall protect program information and carryover time-of-day for a minimum of 3 years. Switch configuration to be _____ (SPST) or (DPST) 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 volt), (240 volt) 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 agency listed under UL category 916 Energy Management Equipment and shall be INTERMATIC Model _____ (ET171C/CR), (ET173C), (ET174C), (ET175C), or (ET279C).

Model#	Circuits	Switch	Clock Voltage	Amp Rating	HP Rating	Enclosure
ET171C	1	SPST	120	30	1HP / 2HP	NEMA1
ET171CR ¹	1	SPST	120	30	1HP / 2HP	NEMA3R
ET173C	1	DPST	120	30	1HP / 2HP	NEMA1
ET174C	1	DPST	240	30	1HP / 2HP	NEMA1
ET175C	1	SPDT	120	10/30	1HP / 2HP	NEMA1
ET279C ^{2,3}	2	SPST	120	30	1HP / 2HP	NEMA1

¹NEMA 3R drawn steel enclosure.

²User selectable contacts independent 2xSPST, simultaneous DPST, or pulsed for mechanically held contactor operation.

³Complies with California Title 24 requirements for multi-level outdoor lighting control.