



ET91615CR



ET90215CRE



ET90115C

ET90000 Series

365-Day Astronomic Time Switches

The ET90000 Series combines powerful and intuitive scheduling with truly maintenance-free convenience. The PC App and Mobile App provide real-time remote control, and the USB connection and Ethernet capabilities enable in-field updates.

Applications

- School districts • Banks • Small hotels • Franchises • Retail stores
- Municipalities • Parking lots • Offices

Features

- Automatic input voltage selection from 120 to 277 VAC, 50/60 Hz
- Over 2,000 events plus holiday schedules
- Advanced scheduling including relative dating, such as fourth Thursday of November or first week of year
- 30 A rated contacts
- 100-hour supercapacitor eliminates the need for batteries
- USB connection for uploading, downloading and transferring programs
- Easy-to-follow on-screen menus for programming to-the-minute accuracy
- Non-volatile memory protects programming indefinitely
- Firmware upgradable in-field via USB or Ethernet
- Internally expandable, in 4-circuit increments, up to 16-circuits for 4, 8, and 12-circuit models
- PC App for easy scheduling or control, either remotely or through USB flash drive
- Mobile app for real time status and overrides

Load Type	NO (Normally Open)	NC (Normally Closed)	Voltage
General Purpose & Resistive	30 A	—	12-240 VAC
General Purpose & Resistive	20 A	10 A	12-240 VAC
Resistive	20 A	10 A	28 VDC
Magnetic Ballast	20 A	3 A	120-277 VAC
Tungsten	5 A	—	12-120 VAC
Pilot Duty	470 VA	275 VA	120-240 VAC
Motor	1 HP	¼ HP	120 VAC
Motor	2 HP	½ HP	240 VAC



Ratings	
Cycle	50/60 Hz
Wiring Terminals	#20 to #6 AWG wire
MIN ON/OFF Times	1 second
MAX ON/OFF Times	365 days
Operating Temperature	-40° F to 104° F (-40° C to 40° C)
Warranty	3-year limited

Model #	Circuits	Enclosure	Ethernet
ET90115C	1	Type 1 Metal	Optional
ET90115CE	1	Type 1 Metal	Included
ET90115CR	1	Type 3R Metal	Optional
ET90115CRE	1	Type 3R Metal	Included
ET90115M*	1	—	Optional
ET90215C	2	Type 1 Metal	Optional
ET90215CE	2	Type 1 Metal	Included
ET90215CR	2	Type 3R Metal	Optional
ET90215CRE	2	Type 3R Metal	Included
ET90215M*	2	—	Optional
ET90415CR	4	Type 3R Metal	Included
ET90815CR	8	Type 3R Metal	Included
ET91215CR	12	Type 3R Metal	Included
ET91615CR	16	Type 3R Metal	Included

*Replacements for 1 & 2 circuits only.

Note: The electronic mechanism snaps into the standard Intermatic enclosure for easy upgrading of mechanical mechanisms, if desired.

Accessories

Door Assembly	ET9100
Ethernet Module	ET9232
Relay Module	ET9250

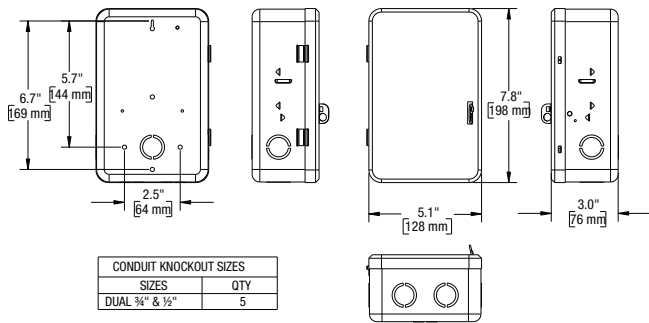
Selection Guide

Scan the QR code with your smartphone or tablet for a side-by-side comparison of our electronic control features.

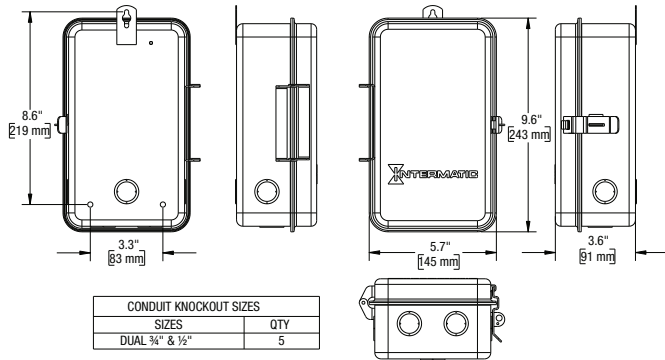


Enclosure Dimensions

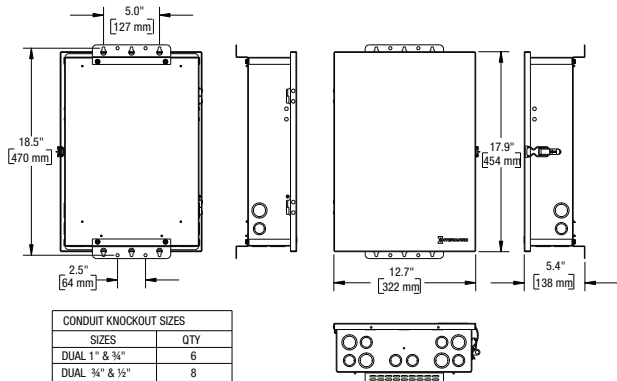
Type 1, 1-2 Circuit



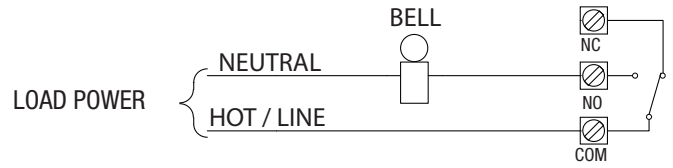
Type 3R, 1-2 Circuit



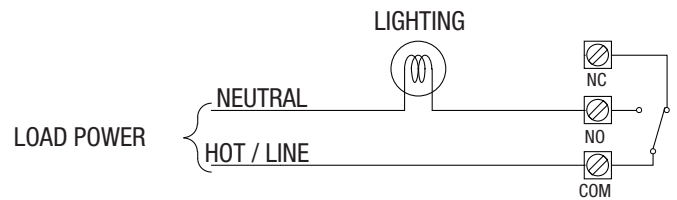
Type 3R, 4-16 Circuit



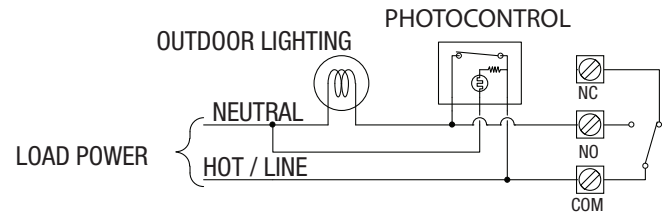
Wiring Diagrams



Typical bell, buzzer, or ringing installation. Multiple loads may be wired concurrently, within the maximum output ratings for the circuit.



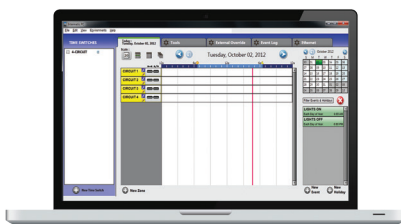
Typical lighting installation. Multiple loads may be wired concurrently, within the maximum output ratings for the circuit.



Typical installation for photocontrol in parallel with time switch contacts. Either the time switch OR the photocontrol must be ON to power the load. Ideal for improved safety. Loads will activate at the scheduled times, at night, or during low-light conditions such as a storm.

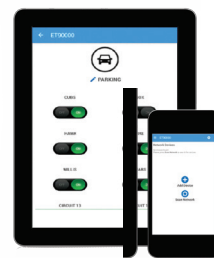
ET90000 Apps

ET90000 PC App



The ET90000 PC App enables real-time remote control of each ET90000 device from the convenience of your laptop. It's a great tool for creating schedules before, during, or after installation. Plus, with the PC App you can control circuits, perform firmware updates, or download events, zones, and holidays from wherever you are working.

ET90000 Mobile App



Use the ET90000 Mobile App to check the status of your circuits in real-time from your smartphone or tablet. The remote override feature allows you to conveniently make quick changes to currently running schedules.

ET9500

BEMS Interface Box

The ET9500 Building Energy Management System (BEMS) Interface Box integrates the ET90000 Series with your building's automation or energy management system — for a hassle-free "integration-in-a-box" solution.

Features

- Simple Web interface for easy installation
- No configuration files to manually build or download in the field
- Field selectable for specific BEMS/BAS protocol
- Scalability to expand lighting control system when and as needed
- Each ET9500 supports up to 40 ET90000s
- Standard Type 3R metal enclosure
- BTL-certified

Compatible with
3rd Party BEMS/BAS
(BACnet®, Modbus,
Metasys® N2)



Customer Router & LAN



Ethernet

Ethernet



ET9500
BEMS Interface Box



ET90000 Electronic
Time Switch



3rd Party Devices

Applications



Schools



Office Buildings



Gas Stations



Retail Stores/Banks

Model #	Description	Enclosure
ET9500	BEMS Interface Box	Type 3R Metal



Ratings

Power Requirements	120-277 VAC, 50/60 Hz
Operating Temperature	-40° F to 104° F (-40° C to 40° C)
Relative Humidity	10% - 90%, non-condensing
Enclosure Dimensions H x W x D	12" x 12" x 4 1/4" (304.8 mm x 304.8 mm x 108.0 mm)
Warranty	3-year limited

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BACnet® is a registered trademark of ASHRAE.

Versatile 24-Hour, 7-Day and 7-Day Astronomic ET Series Time Switches feature several different switching output configurations to meet the needs of nearly any application. They can be installed using the surface mount bracket, or with an indoor metal, outdoor metal, or outdoor plastic enclosure. Specific models are available as a mechanism only for easy replacement. Whatever the application, we'll deliver the ideal solution for your needs!

Selection Options

Select from two options that cost-effectively meet your needs:

Basic Series

- Battery backup
 - Simple scheduling
- See pages 14-15

Basic+ Series

- Supercapacitor backup
 - USB port
 - Holiday, exception and more complex scheduling
- See pages 12-13

Pick the schedule that best meets the needs of the facility:

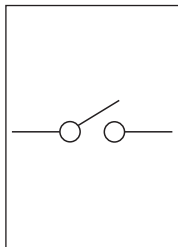
24-Hour

7-Day

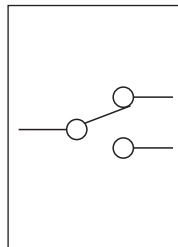
7-Day Astronomic

Select a circuit/switch type:

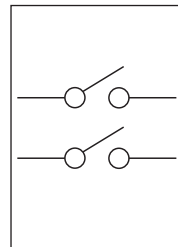
One SPST Circuit



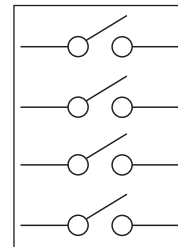
One SPDT Circuit



Two SPST Circuit



Four SPST Circuit



House your control in one of these enclosures:



Indoor Type 1 Metal



Outdoor Type 3R Metal



Outdoor Type 3R Plastic

For enclosure line drawings and knockout locations, see pages 164-165.