Electronic Controls Portfolio

Our portfolio of controls cost-effectively handles all types of facility schedules, from simple to demanding.

INTERMATIC®

Lighting represents the largest source of electricity consumption in U.S. commercial buildings. Leaving your facility lights on unnecessarily adds to your operating costs. When every kW of energy conserved adds up to savings to your bottom line, choosing the right controller for lighting and other electrical load schedules makes a difference.
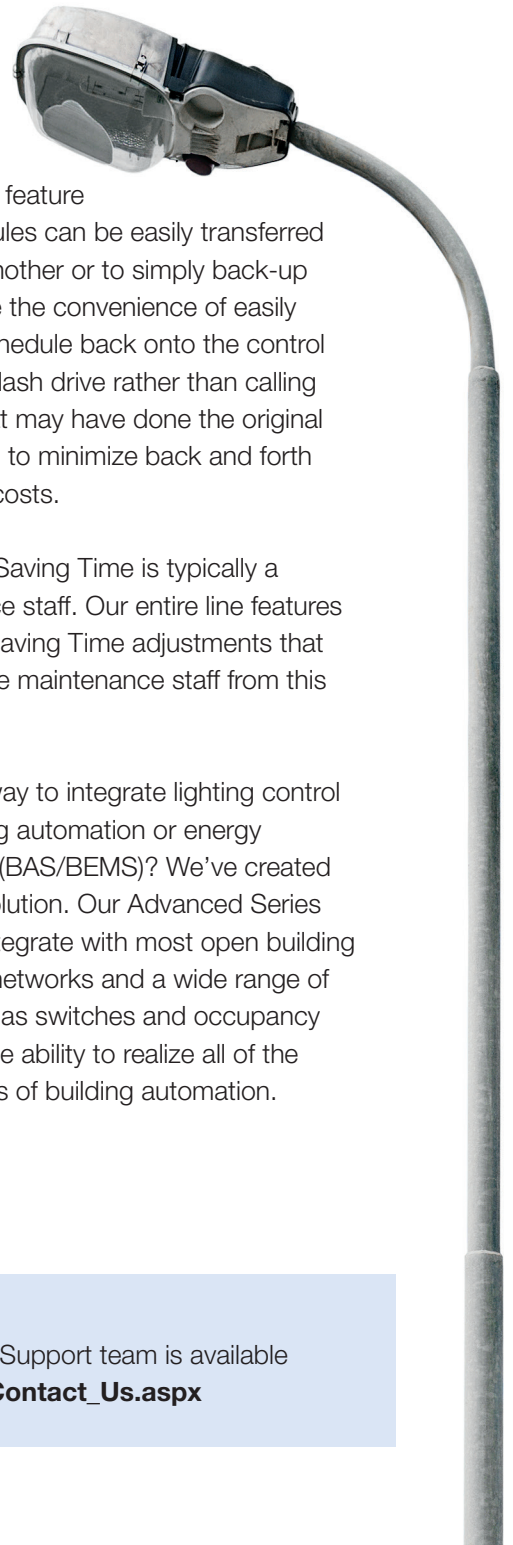
Intermatic's Electronic Controls Portfolio controls interior and exterior lighting, pumps, fans, signage, and more based on the facility's schedule and occupant needs, from simple 24-hour, to 7-day with off-day and holiday exceptions, to complex 365-day advanced BEMS integration. We designed them with features that give you exactly what you need – precise control, scheduling flexibility, maintenance relief, and long-lasting performance.

Maximize productivity and savings

Whether you want to save energy by turning off load-consuming lighting and equipment when not needed, or enhance safety with timed and zone-specific illumination, Intermatic's Electronic Controls Portfolio offers a complete selection of controls to meet your unique needs and specifications, including:

- Dusk in Chicago occurs at a different time than California. Within the portfolio, certain models provide dusk-to-dawn settings, also known as astronomic. These deliver sensitive control that is tailored to the exact time of sunset or sunrise in your location.

- Tired of paying for maintenance calls to replace batteries or restore lost controller information? The Basic+ and Advanced Series feature a 100-hour supercapacitor to ensure information remains intact, despite a power loss.

- Basic+ Series and Advanced Series also feature a USB port so schedules can be easily transferred from one control to another or to simply back-up the schedule. Imagine the convenience of easily putting the original schedule back onto the control by simply inserting a flash drive rather than calling out the contractor that may have done the original installation. This helps to minimize back and forth trips and service call costs.

- Adjusting to Daylight Saving Time is typically a hassle for maintenance staff. Our entire line features Automated Daylight Saving Time adjustments that will completely free the maintenance staff from this burden.

- Looking for an easy way to integrate lighting control with a facility's building automation or energy management system (BAS/BEMS)? We've created a simple, all-in-one solution. Our Advanced Series Electronic Controls integrate with most open building automation protocol networks and a wide range of control devices, such as switches and occupancy sensors, giving you the ability to realize all of the energy-saving benefits of building automation.

Contact us anytime

We'll help you find the proper control for the application. Our In-House Technical Support team is available 5 days a week at **815-675-7000** and by visiting **www.intermatic.com/About/Contact_Us.aspx**

Electronic Controls Portfolio – Basic Series Electronic Controls

Affordable, simple control for straightforward load scheduling.

ET8215

Intermatic has an affordable control to handle your every day needs. Even if your schedule varies only slightly one day out of the week, the right control will help you maximize your energy savings. The Electronic Controls Basic Series enables basic control of interior and exterior lighting, fountain pumps, signage, and more, making it the perfect solution for gas stations, parking garages, storage facilities, and convenience stores.

"I want my convenient store's interior lights to go on and off at the same time each day, every day of the week… but earlier on Sundays."

The Basic Series accommodates 24-hour schedules, varying 7-day schedules, and independent 7-day, dusk/dawn programming which factors in sunrise and sunset, your location, and the season. This gives you the exact control you need and the right amount of scheduling flexibility, at a cost-effective price.

Highlights
- Automatic Daylight Saving Time adjustments
- Battery backup with expected 3-year battery life
- Super capacitor option (ET8415CR only)
- Most cost-effective solution

Applications
- Signage
- Parking Lot Lighting
- Perimeter Lighting
- Interior Lighting
- Fans/Blowers/Pumps

Basic Series	ET1100	ET1700	ET8000
Schedule	24-Hour	7-Day	7-Day Dusk/Dawn (Astronomic)
Power Backup	AAA Battery	AAA Battery	AAA Battery or Supercapacitor (ET8415CR)
Circuits	1 or 2	1 or 2	1, 2, or 4 (ET8415CR)
Switching Configurations	1 or 2 SPST, 1 DPST, or 1 SPDT; Pulse (2,4 Circuit Models)		
Setpoints/Events	Up to 14 ON/14 OFF (28 Events)	Up to 14 ON/14 OFF (28 Events)	Up to 14 ON/14 OFF (28 Events) Up to 28 ON/28 OFF (56 Events – ET8415CR)
Enclosures	Indoor Type 1 Steel / Outdoor Type 3R Plastic / Outdoor Type 3R Steel		
Automatic Daylight Savings Time Adjustment (Jumper Pins and Select Voltage Input)	Yes	Yes	Yes
LED-Verified Compatibility	Yes	Yes	Yes
Warranty	1-Year	1-Year	1-Year

Electronic Controls Portfolio – Basic+ Series Electronic Controls

Automation flexibility, scaled to meet fairly complex and changing schedules.

Why waste time and money messing with timers, time changes, and adjustments when trying to manage your facility's interior and exterior lighting? We've integrated a feature into our Electronic Controls Portfolio Basic+ Series Controls that helps easily account for changes in more complex schedules, including holidays and special events.

The Basic+ Series gives you more automated control of interior and exterior lighting, bell ringing, water features, signage, and more, making it the perfect solution for schools, small hotels, retail stores, restaurants, and small offices. The capacity for each model to hold up to 96 scheduled events, and up to 50 special scheduled events, provides ample flexibility to accommodate more complex schedules, as well as capacity for future schedule changes and additions.

Imagine walking into a building first thing in the morning, and realizing that the lights are not "ON" due to a power outage the previous evening. Our Basic+ Series features automatic recovery options that put an effective end to those types of situations. A supercapacitor maintains the scheduling function and information carryover for 100 hours in the event of a power outage, eliminating the need to re-program each controller or to replace batteries.

With the USB port, schedules can be easily saved and transferred from one time control to another, or back-ups can be performed, which saves time by reducing unnecessary trips. A non-proprietary USB allows for a standard USB Flash drive to be used rather than needing to buy an additional component.

"Once a month, we need the lights on all-night for inventory resets. Our lighting schedules also change throughout the year when we extend hours for holiday-themed promotions."

ET2100   ET2800

Highlights

- Automatic voltage detection for fast, easy, out-of-the-box installations
- Control different load types and voltages from a single control
- Adjust Daylight Saving Time through software, rather than Dip switches
- Configurable outputs allow these models to cover various types of applications with a single clock
- A great retrofit solution – fits easily into other Intermatic enclosures
- Meet Title 20 Compliance without the need to add remote switch and countdown timer
- Designed and tested to meet LED applications

Applications

- Exterior/Interior Lighting
- Security/Parking Lot Lighting
- Bell Ringing
- Electric Motors/Pumps

Basic+ Series	ET2100	ET2700	ET2800
Schedule	365/24-Hour	365/7-Day	365/7-Day w/Dusk and Dawn
Power Backup	100 Hour Supercapacitor		
Circuits	Available in 1, 2, or 4 Circuits		
Switching Configurations	1 SPST or 1 SPDT; 2 SPST; 4 SPST; Pulse (2,4 Circuit Models)		
Setpoints/Events	Up to 96 Set Points, plus 50 Holiday Blocks		
Enclosures	Indoor Type 1 Steel, Indoor/Outdoor Type 3R Plastic, Outdoor Type 3R Steel		
Automatic Daylight Savings Time Adjustment	Yes	Yes	Yes
LED-Verified Compatibility	Yes	Yes	Yes
USB Port	Yes	Yes	Yes
Warranty	2-Year	2-Year	2-Year

Electronic Controls Portfolio – Advanced Series Electronic Controls

ET90000 Controller + ET9500 BEMS Interface Box. Smart technology reliably and affordably handles the most demanding schedules.

Schools are also community spaces, making them busy facilities every day of the week. Yet, many are cash-strapped, which oftentimes leaves the facility or maintenance manager tasked with a mandate to cut energy costs. Did you know targeted energy savings can be most practically realized through the implementation of lighting controls? Our Advanced Series enables building automation system integration and control of the most demanding facility schedules, whether by month, week, or even each day. This not only improves the productivity of short-staffed maintenance crews, but also generates savings.

The new ET9500 Building Energy Management System Interface Box integrates the ET90000 Lighting Controller with your building's automation or energy management system, giving you true "set it and forget it" convenience in a "box."

The ET90000 series can be networked via the ET9500 BEMS Interface Box to an existing BEMS/BAS that uses BACnet® MS/TP, BACnet IP, Modbus RTU, Modbus TCP/IP, and Metasys® N2 by JCI protocols. It can also integrate with external devices, such as wall switches and occupancy sensors, allowing your facility to realize the cost-saving efficiency of automated, energy-management control.
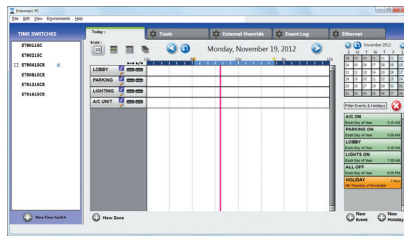
For example, a facilities director of a restaurant chain can install the ET90000 and the ET9500 in all five of its locations. Integrating the control lighting system with a third party BEMS gives the director and the maintenance team the ability to monitor and control the lighting at all five restaurants from the central downtown office, or remotely from anywhere through PC and Mobile Apps. For additional peace-of-mind, the ET90000's scalability expands easily, so there's no worry when three additional outlets open in the near future.

"Every night of the week, and on the weekends, there is something going on at each one of the seven schools in our district."

Mobile App   PC App   ET90000   ET9500

ET90000 Highlights

- Automatic input voltage selection from 120 to 277 VAC, 50/60 Hz
- Over 2,000 events plus holiday schedules
- Advanced scheduling, such as fourth Thursday of November or first week of year
- 30 A rated contacts
- 100+ hour supercapacitor maintains date and time in case of power outage
- USB connection for uploading, downloading and transferring of 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
- PC App for easy scheduling or control either remotely or through USB Flash Drive

ET9500 Highlights

- Simple web interface for easy installation
- No configuration files to manually build or download in field
- Field selectable for specific BEMS protocol
- Supported Protocols: BACnet MS/TP, BACnet IP, Modbus RTU, Modbus TCP/IP, and Metasys N2
- Each ET9500 Box supports up to 40 ET90000 Controls

Applications

- School Districts
- Banks
- Small Hotels
- Franchises
- Retail Stores
- Municipalities
- Parking Lots
- Offices

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BACnet® is a registered trademark of ASHRAE.

Advanced Series	ET90115	ET90215	ET90415	ET90815	ET91215	ET91615
Schedule	365-Day Astronomic					
Power Backup	100 Hour Supercapacitor					
Circuits	1	2	4	8	12	16
Switching Configurations	SPDT	SPDT	SPST/SPDT/DPST/DPDP			
Setpoints/Events	Over 2,000 plus Holiday Schedules					
Enclosures	Indoor Type 1 Steel, Outdoor Type 3R Steel		Outdoor Type 3R Steel			
PC App & Remote Monitoring Option	Yes	Yes	Yes	Yes	Yes	Yes
Automatic Daylight Savings Time adjustment	Yes	Yes	Yes	Yes	Yes	Yes
LED-Verified Compatibility	Yes	Yes	Yes	Yes	Yes	Yes
USB Port	Yes	Yes	Yes	Yes	Yes	Yes
Ethernet Capability	Yes	Yes	Yes	Yes	Yes	Yes
Warranty	3-Year	3-Year	3-Year	3-Year	3-Year	3-Year

Electronic Controls Portfolio Selection Chart

Please see inside for detailed information on our portfolio.

	Basic Series			Basic+ Series			Advanced Series
	ET1100	ET1700	ET8000	ET2100	ET2700	ET2800	ET90000
Circuits	1, 2	1, 2	1, 2, 4	1, 2, 4	1, 2, 4	1, 2, 4	1, 2, 4, 8, 12, 16
USB	No	No	No	Yes	Yes	Yes	Yes
Holidays	No	No	No	Yes	Yes	Yes	Yes
Ethernet	No	No	No	No	No	No	Yes
LED	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Supercapacitor	No	No	No	Yes	Yes	Yes	Yes
Title 20*	No	No	No	Yes	Yes	Yes	Yes
Astronomic	No	No	Yes	No	No	Yes	Yes
External Override	No	No	No	No	No	No	Yes
PC App	No	No	No	No	No	No	Yes

*Title 20 for commercial use

Lighting Controls | Surge Protection | Weatherproof | Photocontrols | Timers | Defrost/Refrigeration Controls

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