The background of the entire page is a scenic night view of a lake with a cabin on the right and mountains in the distance. A large, semi-transparent blue graphic element, resembling a stylized 'I' or a series of overlapping arcs, runs vertically through the center. Six circular inset images are placed along this graphic, each corresponding to a product category. The Intermatic logo, consisting of a stylized 'I' inside a square, is positioned at the top left. Below it, the tagline 'Providing a brighter solution.' is written in a smaller font, followed by the main title 'General Catalog' in a large, elegant serif font.

INTERMATIC[®]
Providing a brighter solution.[™]
General Catalog

WEATHERPROOF

ENERGY CONTROLS

PROFESSIONAL LIGHTING

POOL & SPA CONTROLS

SURGE PROTECTION

CONSUMER PRODUCTS

www.intermatic.com

Providing a Brighter Solution™

A system is defined as a group of units, combined to form a whole, which operates in unison. Intermatic takes this definition one step further and combines complete communication with total connectivity. Instead of just putting forward a massive listing of part numbers, Intermatic provides its customers with a new approach to energy controls that combines six categories of products into singular solutions – helping everyone from distributors and electrical contractors to architects and designers provide their customers with smarter and more reliable energy control systems.



WEATHERPROOF



ENERGY CONTROLS



PROFESSIONAL LIGHTING



POOL & SPA CONTROLS



SURGE PROTECTION



CONSUMER PRODUCTS

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Icon Legend:

 Underwriters Laboratories Listed	 UL Component Recognized
 UL Tested to Both UL & CSA Standards	 Knockouts
 CSA Tested to Both CSA & UL Standards	 Temperature
 CSA Tested to UL Standards	 Shipping Weight
 Canadian Standards Association Approved	 Warranty Period



Intermatic's headquarters and main manufacturing facilities in Spring Grove, Illinois... making quality products since 1891.

Visit us on our website at www.intermatic.com for the most up to date information on Intermatic products.

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Grounded in a tradition of innovation and service

In 1891, Intermatic began producing portable fare registers for streetcars. Over the next 115 years, Intermatic developed a huge variety of products that have increased the safety, productivity and convenience of homes and businesses around the world.

Driven by new technology and the needs of our customers

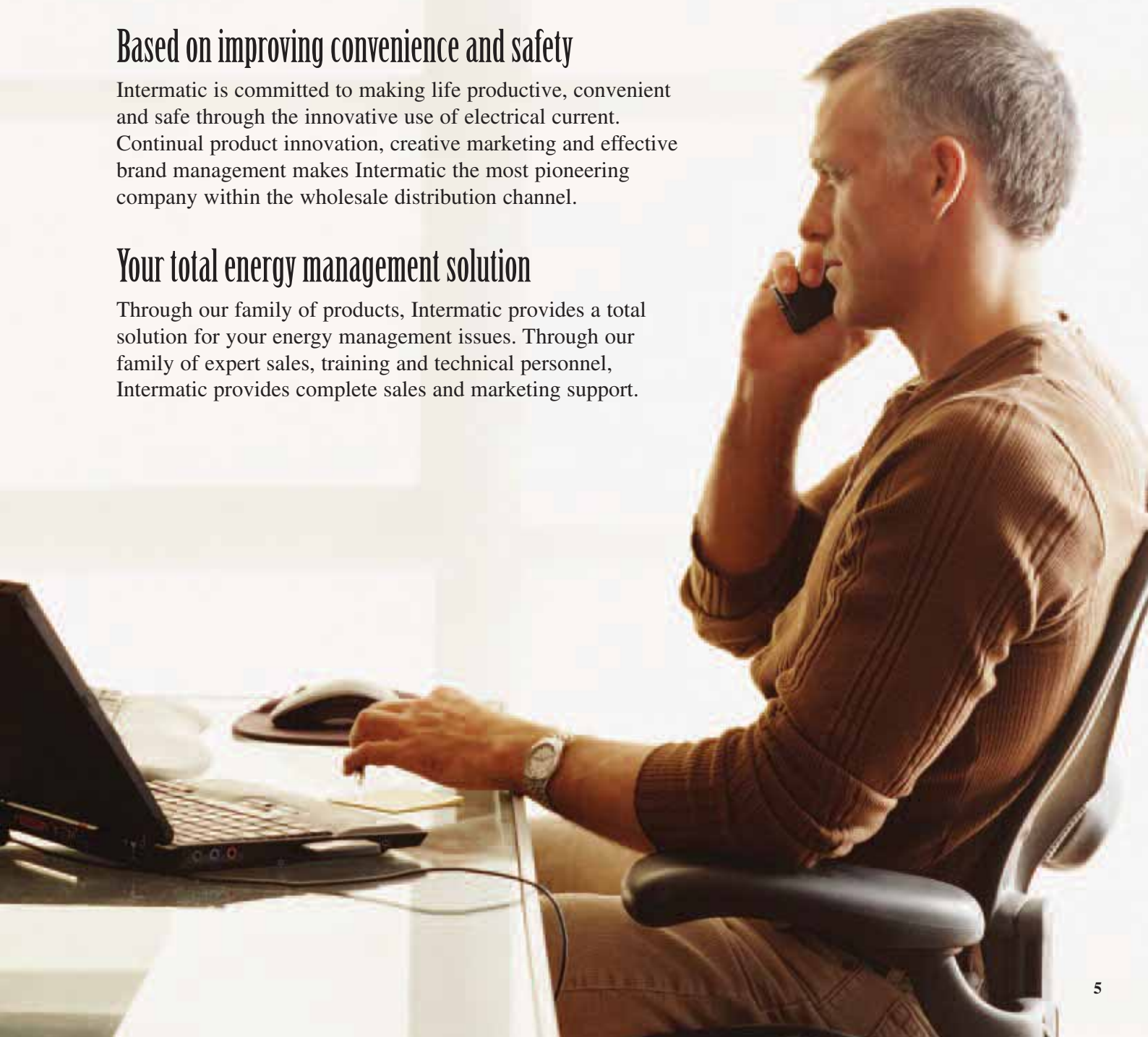
Today, Intermatic is the leading supplier of high quality energy control products for industrial and commercial markets — moving into the 21st century with an extensive line of technology-driven products backed by an unparalleled level of customer service.

Based on improving convenience and safety

Intermatic is committed to making life productive, convenient and safe through the innovative use of electrical current. Continual product innovation, creative marketing and effective brand management makes Intermatic the most pioneering company within the wholesale distribution channel.

Your total energy management solution

Through our family of products, Intermatic provides a total solution for your energy management issues. Through our family of expert sales, training and technical personnel, Intermatic provides complete sales and marketing support.



Service entrance surge protection



HVAC energy controls



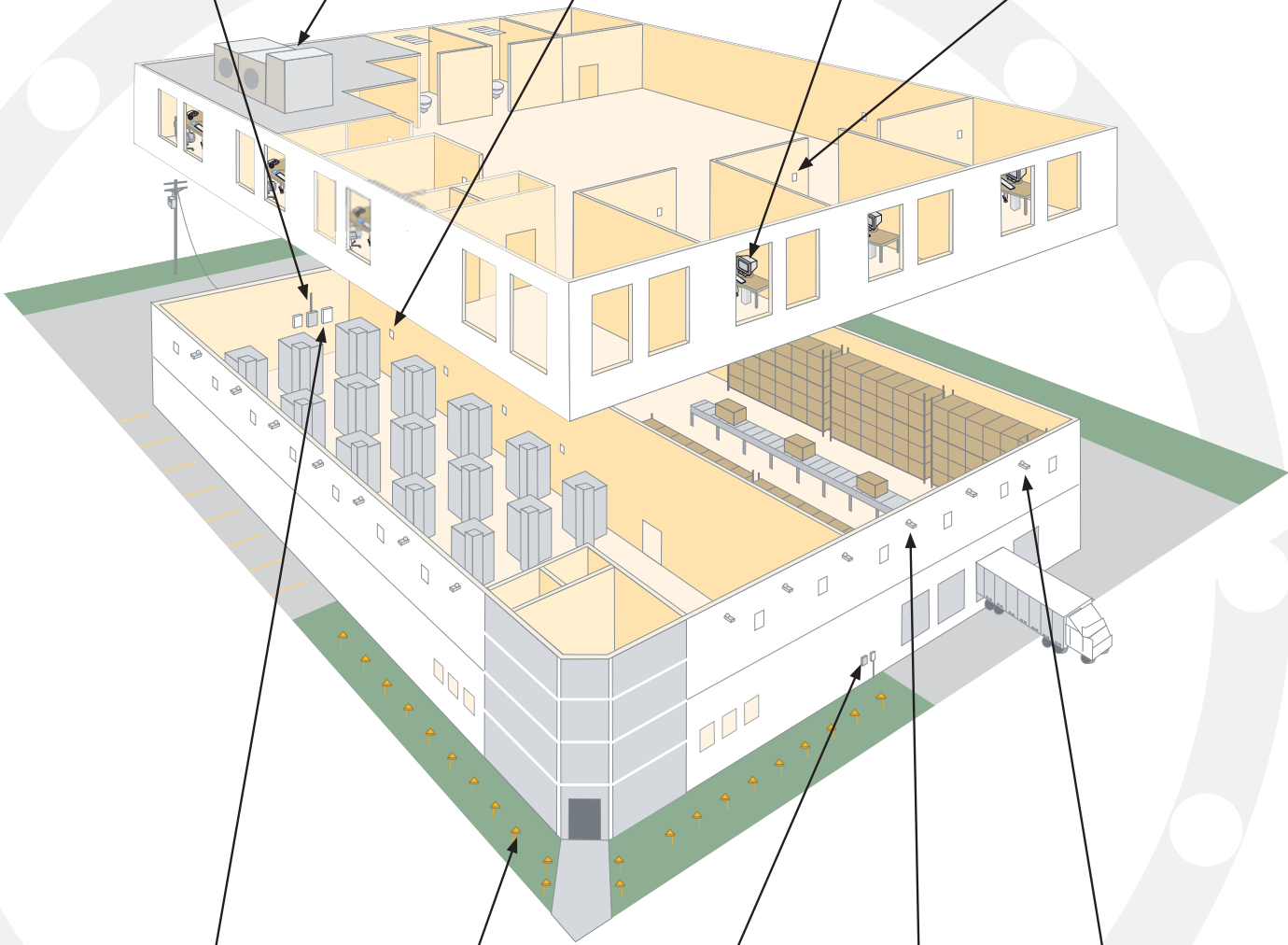
Auto shut-off timers



Office equipment surge protection



Interior lighting controls



Service entrance energy controls



Landscape lighting



Exterior receptacle covers

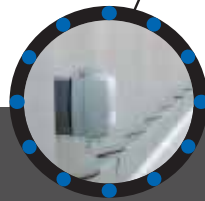


Photo controls



HID lighting



Intermatic has everything contractors, maintenance personnel and plant or facility managers need to keep their factories, centers and businesses running at their peak.

Intermatic Commercial and Industrial Applications

- Interior and exterior lighting control
- Parking lot lighting control
- Mechanical time switches
- Electronic time switches
- Service entrance and panelboard surge protection
- Point-of-use surge protection
- Exterior receptacle protection
- Landscape lighting

Intermatic has a full line of commercial and industrial products needed to reduce electricity and labor costs and decrease power quality problems. Small investments in Intermatic energy controls and surge protection can:

- Increase energy savings
- Increase up-time
- Increase productivity
- Increase data retention

Whether it's part of a manufacturing, distribution or office environment, Intermatic offers a broad line of commercially related products for:

- High amperage/voltage machinery
- Heavy duty pumps
- Motors
- Variable frequency drives
- HVAC systems

In addition to a broad range of products, Intermatic provides complete bid specifications and wiring diagrams for every model and each product is backed up by the industry's best sales support and technical assistance team.

Z-WAVE™

For more than a century, Intermatic has been a premier supplier of commercial and industrial products and has developed a reputation for providing its customers with innovative products that far exceed their expectations. The new InTouch Wireless Controls™ line of home controls will serve as the primary link to the Intermatic System. Brought to life with Z-Wave™ technology, InTouch Wireless Controls™ will help our customers grow their business within the booming home controls industry and will help home and business owners achieve higher levels of convenience, security and safety.

Residential Applications

Whether you're an electrical contractor, homebuilder or homeowner, Intermatic is the only name you need to know for increased levels of convenience, safety, security and electronic protection.

Intermatic Residential Applications

- Interior and exterior lighting control
- Whole home energy controls
- Whole home surge protection
- Home office and home theatre surge protection
- Pool and spa controls
- Landscape lighting
- Exterior receptacle protection
- Security floodlighting

With electricity costs on the rise and power quality problems at an all time high, Intermatic has a full line of residential products needed to combat these issues. A minor investment in energy controls and surge protection can prove to have major long-term cost savings and home appliance/electronic preservation. Intermatic residential products provide homeowners with multiple benefits, including:

- Whole home energy savings
- Lighting automation to increase the beauty, Safety and security of your home
- Surge protection for home appliances and electronics
- Landscape lighting to accent your home and property
- Pool and spa controls for improved cost savings and convenience

Intermatic provides the home building industry with the most comprehensive offering of residential energy control and surge protection products. Intermatic also offers weatherproof products, pool and spa controls and low voltage landscape lighting. Intermatic products can be used through a home and the surrounding property, including:

- Garages and outbuildings
- Landscaping
- Entrances
- Kitchens and bathrooms
- Home offices and entertainment centers
- Pool and spas

Intermatic has developed two marketing programs to benefit those within the residential market:

- **Intermatic Authorized Installer Program** helps contractors up-sell during a service call.
- **InGenius Homebuilder Program** helps builders of new homes increase their add-on opportunities.

Z-WAVE™

The future of the digital home is closer than we realize. Intermatic has a growing list of home control products that work together to enhance the safety, security and convenience of our complex and eventful lives. Intermatic has the knowledge, ability and resources to revolutionize home automation.

Garage lighting controls



Bathroom fan, lighting and whirlpool controls



Entrance/porch lighting



Home office surge protection



Area floodlighting



Pool and spa controls

Landscape lighting



Whole home surge protection



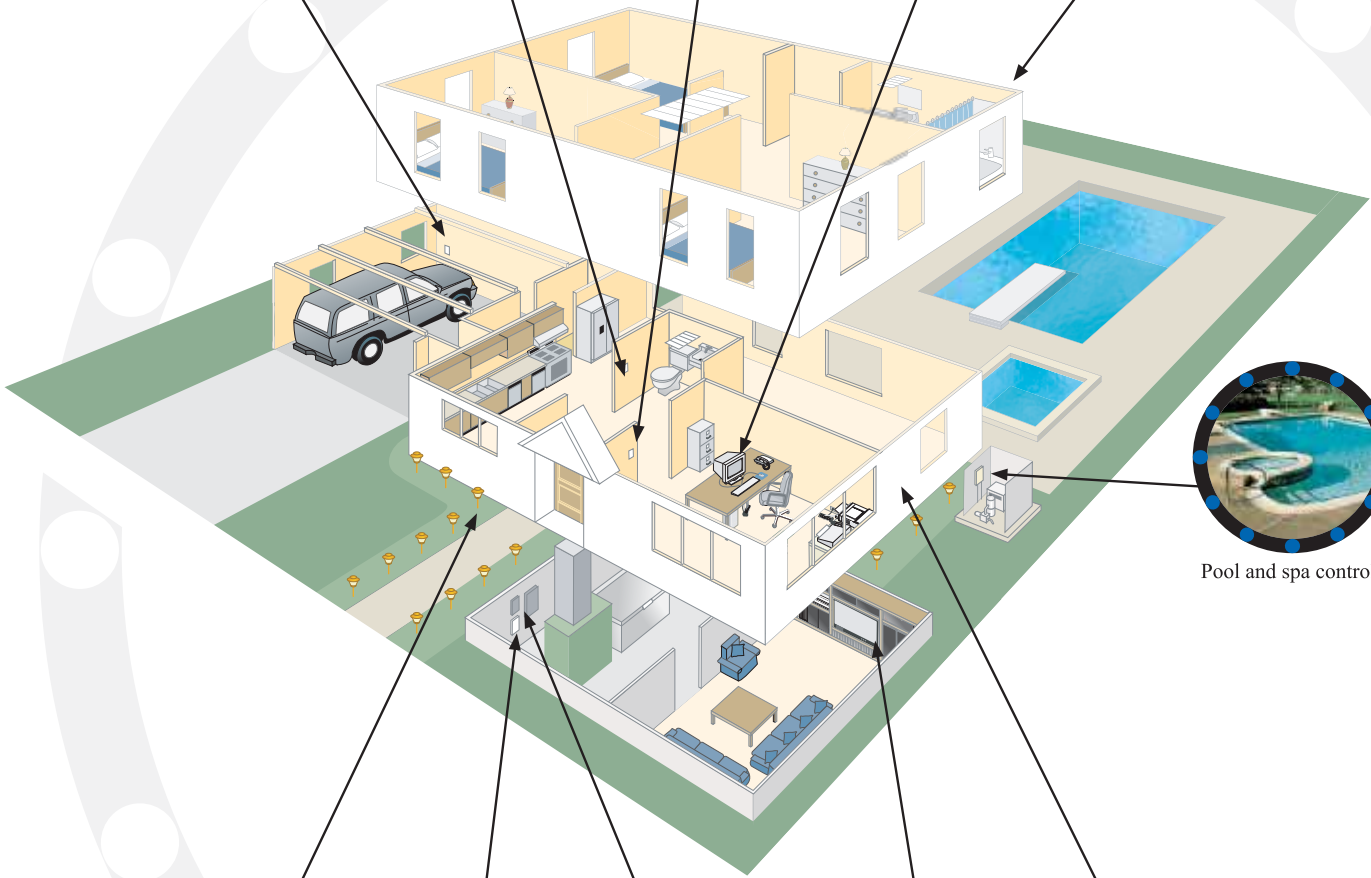
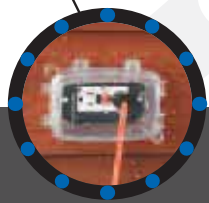
Whole home energy controls




Wireless home controls



Exterior receptacle protection





Intermatic provides you with everything you need in order to draw, secure and maintain steady sales growth

Opportunities include:

- Advanced Sales Support
- Sales Incentives
- Sales Training
- Sales Programs and Promotions
- Merchandising
- Interactive Web Site

The Industry's Best Sales Support

Our distributor sales training includes ways to best merchandise and up-sell our wide array of products. Training takes place at local, regional and national trade shows. In addition, Intermatic holds regular counter days and product “lunch and learns,” hosted by our direct sales personnel and sales agents, on location at local distributors.

Call **800-391-4555** for toll-free technical support and assistance with programming, installation or application questions. Intermatic also works with engineers and specifiers and holds seminars for them on InTouch Wireless Controls™, surge suppression products and Next Generation time switches. Contact your local Intermatic sales representative or visit **www.intermatic.com**.

Intermatic's order service support is set up to allow distributors and OEM customers to receive product when, where and how they want it. Drop shipments, multi-location shipments, blanket orders, express shipping and ship complete orders are complemented by a variety of other order support services. Our highly trained customer service representatives can also provide you with support for technical questions and applications by calling **815-675-7000** between 8:00 a.m. and 4:30 p.m. CST, Monday through Friday.

Intermatic Merchandising/Support

Customized Sales Incentives

Regular sales spiffs for sales and counter personnel are designed to motivate the seller and push product at every level. Customized sales support literature can also be designed for local made-to-order programs.

Comprehensive Sales Training

Providing you with the industry's best electrical products is step one. Helping you get those products into the hands of your customer is step two. The best way to make that happen is to supply you with specific information on how to sell and up-sell within our five categories of products. On site or at the counter, Intermatic gives you the answers to frequently asked questions and provides you with good, better and best scenarios and competitive comparisons in order to help you help your customers make the best buying decision.

Motivational Sales Programs and Promotions

Intermatic is a total business partner and backs the sale of its products with innovative programs and promotions at every level, with support provided to distributors, contractors and home builders.

- **The Power-Plus Program** for distributors increases their margins and inventory turns while lowering their transaction costs.
- **The Authorized Installer Program** helps contractors add to their bottom line by up-selling and installing additional products during service calls.
- **The InGenius Program** helps home builders sell upgrades at model homes and in the sales office.

Intermatic also provides a regular selection of promotions that include shipper/displays, product introductions, contractor bonus packs and Intermatic branded merchandise.

Thought-provoking Merchandising

Eighty percent of walk-in customers will buy additional products, if merchandising is done effectively. Sixty-five percent of all purchases are affected by displays and visual graphics. That is why Intermatic has invested heavily in merchandising resources in order to boost your return on investment. Intermatic's Industrial Merchandising program provides you with the support and information you need to achieve maximum results, increase impulse purchases and build effective displays.

Merchandising items include:

- Plan-o-grams
- Header cards
- Floor, wall and counter displays
- Self shipper displays
- P.O.P. displays
- Counter mats
- Banners
- Spec and cross reference CDs
- Product demo and literature CDs

Interactive Web Site Marketing

Intermatic's e-marketing program utilizes the Internet to provide fast, efficient, 24/7 communications with both distributors and end users. Intermatic's Web site includes:

- Authorized distributor locator
- Authorized installer locator
- Downloadable specifications, wiring diagrams and instruction manuals
- E-mail technical support
- General catalog (downloadable PDF)
- Warranty registration

In the future, a variety of enhancements will be implemented that will include improved navigation, product search by category or model number, competitive product search, ordering of product literature and an events/news page. Also, a new secured-access distributor intranet will provide additional product education and sales training, distributor spec sheets, pricing and promotions, a job-quoting tool and a discussion board.

For more information on Intermatic sales support, programs and promotions, contact your local Intermatic sales representative, visit www.intermatic.com or call **815-675-7000** between 8:00 a.m. and 4:30 p.m. CST, Monday through Friday.

Five reasons to keep your eye on Intermatic

Superior New Product Developments

Intermatic is able to leverage its global and technological resources to provide its customers with products full of innovative features and benefits and maintain its first-to-market stature.

World-class Global Manufacturing

The Intermatic family is made up of a global workforce, who through lean manufacturing methods, produce the world's finest energy control products.

Excellent Supply Chain Management

Regardless of its substantial growth, Intermatic has remained flexible and responsive and completely customer focused. At Intermatic, intensive quality control and on-time deliveries are customary.

Complete Sales and Marketing Support

Over the course of the year, Intermatic helps promote its products through a variety of sales incentives, promotions and merchandising campaigns. We also offer distributor training and technical support at every level.

Superior Enterprise Information Systems

Flexible, Web-based information gives us a competitive advantage and real-time information keeps us up to date to help take better care of our customers.

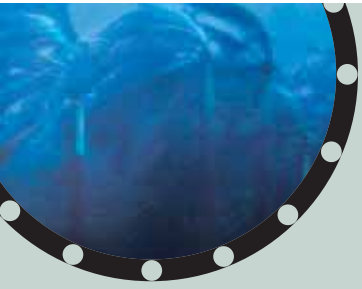


Your Outdoor Needs are Covered

Often times, the simplest things in life make the biggest impact. Intermatic understands that simple measures can have a big effect in protecting the electrical systems and products within your home or business.

Intermatic has designed a line of hard wearing weatherproof products that provide an exact match to the application, are easy to install and provide reliability and longevity. Our full line of weatherproof products are the perfect combination of utility and innovation. From our patented Flexi-Guard covers to our heavy duty die-cast outlet boxes, lamp holders and fittings, Intermatic has you completely covered from start to finish.

Intermatic also makes it easy to stay current with the latest electrical codes and all models comply with 2002 NEC Article 250.146, which provides direct mounting of wiring devices to the switch box. We have the best coverage in the industry and are constantly updating our product categories to meet your ever-changing needs and requirements. As new codes and articles are being introduced and enforced, Intermatic will have the box, cover or accessory you need to remain compliant.



Weatherproof Receptacle Covers with Patented Insert Design



These NEMA 3R receptacle covers ensure compliance with 2005 NEC Article 406.8 (B) (1) which requires that 15 and 20 ampere, 125 and 250 volt receptacles installed in a wet location have an enclosure that is weatherproof whether or not the attachment plug cap is inserted. They also meet the 1999 NEC Article 410-57(b) and are designed to meet the 1999 NEC Article 210-60(b), which requires that receptacles installed behind beds in hotels and motels be protected with a suitable guard.

All covers are shipped with gasket, mounting screws, base and cover assembly and patented inserts. The Flexi-Guard series provides inserts for a variety of applications; 16 for the WP3100/WP1100 single gang series and 70 for the WP1200 two gang series. The single gang Flexi-Guard models are all designed to mount horizontally or vertically. The patented insert design ensures flexibility in the field by simply inserting the proper insert into the base and cover assembly. The two gang Flexi-Guard models utilize six "split" inserts which create virtually any dual device combination, as well as providing additional flexibility because the inserts can be rotated 90, 180 or 270 degrees. This provides coverage for horizontally or vertically mounted devices as well as "left hand" or "right hand" applications without removing and switching the two installed devices.

The "jumbo covers" WP1150C, WP1250C, WP1050 and WP1050G provide protection for a single large cord set (up to 3/4" dia.) for portable spa heaters and other heavy duty applications. A lockable hasp is provided on selected models. The hasp accepts up to .315" (8 mm) diameter shank.

NEMA 3R

Meets UL and CSA Cold Impact Testing at -60°F (-51°C)

Patented: U.S. Patent #5 280 135 U.S. Design Pat. #342233
 Canadian Patent #2 073 932 Other Patents Pending

Waterproof Cover Applications

- Vending Machines
- RV Connectors
- Sprinkling Controls
- Car Lot Lighting
- Car Washes
- Food Preparation
- Hotel Applications
- Amusement Equipment
- Seasonal Lighting
- Drinking Fountains
- Gate Controls
- Low Voltage Lighting
- Plant Grow Lighting
- Scoreboard Controls
- Ventilating Fans
- Remote Power Needs
- Athletic Field Lighting
- Process Start Up
- Meat Processing
- Plant Watering
- Landscape Lighting
- Portable Spas
- Score Board Controls
- Equipment
- Engine Block Heaters
- Remote Feeders
- Outdoor Signs
- Portable Marquee
- Bug Zappers
- Septic Lift Pumps
- Holiday Lighting
- Irrigation Pumps

Specifications

All covers for flushmount, surface mount or FS junction box mounting.

Cover – Clear (gray or white on selected models) UV stabilized polycarbonate with two cord outlets 1/2" (12.7 mm) Wide by 9/16" (14.2 mm) High. Models WP1150C, WP1250C and WP1050 one cord outlet 3/4" (19.1 mm) Wide by 1-5/16" (33.3 mm) High.

Mounting Base and Inserts – Black UV stabilized polycarbonate.

Gasket – Neoprene - 1/8" (4.8 mm) thick with slits for mounting screws.

Shipping Weight – WP3100C – .45 lbs. (0.20 kg)

WP1100C / WP1000HC – .38 lbs. (0.17 kg)

WP1110C / WP1010HC – .41 lbs. (0.19 kg)

WP1150C / WP1230C / WP1030C – .75 lbs. (0.34 kg)

WP1220C / WP1020C – .72 lbs. (0.33 kg)

WP1250C / WP1050 – .9 lbs. (0.41 kg)

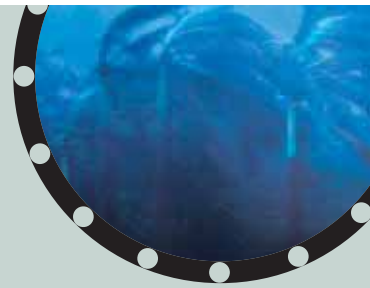


UL514D
E142193



C22.2-42.1
LR88576

Weatherproof Receptacle Covers with Patented Insert Design



WP3100C - Vertical/Horizontal Cover

Flexi-Guard Weatherproof While-In-Use Cover

Product Features

- Complies with 2005 NEC® Article 406.8(B)(1): "15 and 20 Ampere, 125 and 250V receptacles installed in wet locations shall have an enclosure that is weatherproof whether or not the attachment plug cap is inserted"
- Easy to remove cord set exit ports

APPLICATIONS

Provides an attractive, code compliant solution for protecting while-in-use outdoor receptacles.

SPECIFICATIONS

- Mounts Vertically or Horizontally
- Hidden Hinges
- Three patented inserts for GFCI, Duplex, Toggle and Single Receptacles
- Inserts include keyhole slots for 16 installation configurations
- Pre-adhered gasket
- Heavy-duty polycarbonate construction
- Clear Cover
- Gray Base
- Meets requirements for cold impact testing at -60° F (-51°C)
- Lockable hasp for 1/8" shank lock

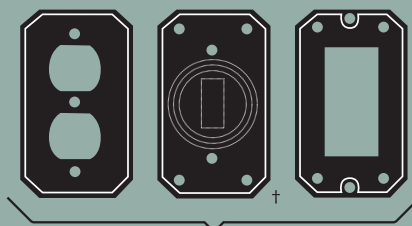
Warranty: Limited 1-year warranty



1.00 lbs
0.45 kg

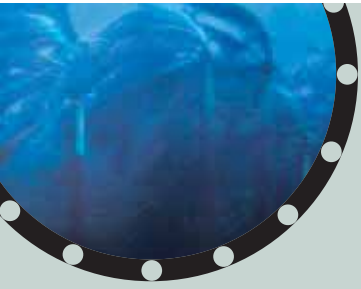


GFCI DEVICE SHOWN NOT INCLUDED



Single Gang Flexi-Guard

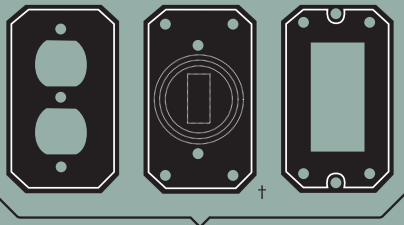
† Converts to toggle, 1-3/8", 1-5/8", 1-3/4", or 2-1/8" diameter round



Weatherproof Receptacle Covers with Patented Insert Design



GFCI DEVICE SHOWN NOT INCLUDED

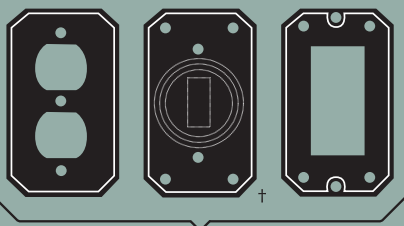


Single Gang Flexi-Guard

† Converts to toggle, 1-3/8", 1-5/8", 1-3/4", or 2-1/8" diameter round



GFCI DEVICE SHOWN NOT INCLUDED



Single Gang Flexi-Guard

† Converts to toggle, 1-3/8", 1-5/8", 1-3/4", or 2-1/8" diameter round

WP1000RC - Vertical Cover

WP1000HRC - Horizontal Cover

Recessed Weatherproof While-In-Use Cover Product Features

- Complies with 2005 NEC® Article 406.8(B)(1)
- Heavy duty, polycarbonate cover for long lasting durability

APPLICATIONS

Provides an attractive, code compliant solution for protecting while-in-use outdoor receptacles.

SPECIFICATIONS

- Device installs recessed in wall for a flush finish for Siding, Stucco or Brick finishes
- Removable siding flange provides clear finish for all siding types
- Patented single gang inserts for GFCI, duplex, single receptacles, toggle switch and blank
- Heavy Duty Gasket ensures protection from the elements
- Recessed Sleeve adjusts to ensure lowest profile installation in every application
- Outlet box offers mounting options for stud, block, brick or cut-in
- Cord exit easily handles two 12/3 cord sets
- Handles romex or conduit installations
- Wider access to device for easy cord set installation
- Heavy duty, UV resistant, polycarbonate constructed cover



Warranty: Limited 1-year warranty

WP2000 Flexi-Guard Outlet Post

Weatherproof While-In-Use Cover PRODUCT FEATURES

- Complies with 2005 NEC® Article 406.8(B)(1)
- Heavy duty PVC construction for long lasting durability

APPLICATIONS

Provides a new, code compliant solution for supplying power to gardens and other out-of-the-way areas. A remotely mounted energy saving photo control and/or timer also available to activate area lighting

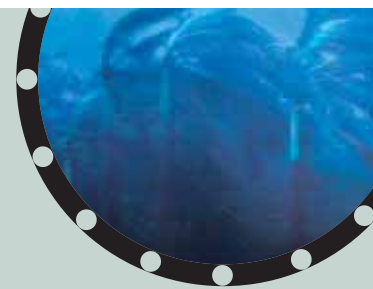
SPECIFICATIONS

- Patented single gang inserts for GFCI, duplex, single receptacles, toggle switch and blank
- Provisions for installing mechanical or digital timers to control area lighting:
 - PB912M10R: 24 hour, 120 Volt mechanical timer – allows for 2 ON/OFF daily cycles
 - PB313K: 24 hour, 120 Volt electronic timer – allows for 8 ON/OFF daily cycles (Timers sold separately)
- Provisions for fixed-position, stem-mounting and stem & swivel mounting photo controls to control area lighting
- All ports accept 1/2", 3/4", or 1" PVC conduit (adapters included)
- Base includes mounting holes and template for optional concrete/pavement mounting
- Cover includes lockable hasp

Warranty: Limited-1 year warranty



Weatherproof Receptacle Covers



Die Cast

These heavy duty die cast receptacle covers ensure compliance with the National Electrical Code (NEC). These models offer the same features as the plastic models but are manufactured of heavy duty cast metal for severe applications such as schools and commercial buildings. The two gang model WP1030MC includes inserts for double gang duplex and GFCI requirements. This patented insert design uses the same inserts as all WP1000 series weatherproof covers and provides flexibility in the field by selecting and inserting the proper insert. For other applications see insert listing below.

All models are recommended for 14 gauge or lighter cord sets. A lockable hasp is provided (lock not included). The hasp accepts up to .315" (8 mm) diameter shank.

Specifications

Cover – Gray die cast metal

Mounting Base – Gray die cast metal with cord outlets 1" (25.4 mm) Wide by 5/8" (15.9 mm) High; one for models WP1010MC and WP1010HMC and two for model WP1030MC.

Inserts – Black UV stabilized polycarbonate.

Gasket – Neoprene 1/8" (3.2 cm) thick with slits for mounting screws.

Shipping Weight – WP1010MC – 0.8 lbs. (0.36 kg)
WP1010HMC – 0.9 lbs. (0.41 kg)
WP1030MC – 1.1 lbs. (0.5 kg)

All models comply with 2005 NEC Article 250.146 which provides direct mounting of wiring devices to the switch box.



UL514D
E142193



C22.2-42.1
LR88576

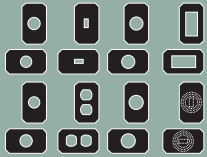


Now you can handle even more with less.

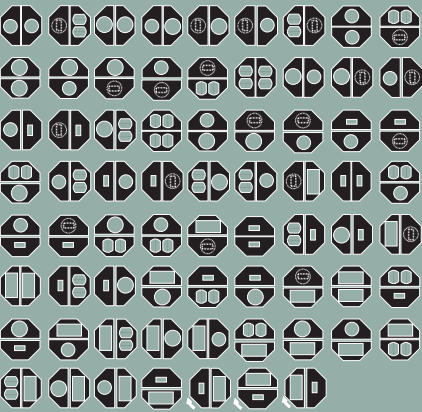
Inserts

Inserts fit single gang models and two gang models of clear, gray or die cast design. The 2-gang inserts for models WP1020, WP1030, WP1020GC, WP1030GC, WP1030MC and WP1050 can be mounted at any angle 90, 180 or 270 degrees from that shown. Additional hardware, if required, and special 2-gang gasket is packaged with 2-gang (WP200 series) inserts.

16 Configurations for Single Gang WP1100C Series



70 Configurations for Double Gang WP1200C Series



Additional inserts available for Flexi-Guard or Guardian Series



Two Gang Duplex WP101	Two Gang GFCI WP102	Two Gang Toggle WP103	Two Gang Round WP107	Two Gang Round WP213
			1-3/8"	2-5/32"
			1-5/8"	2-21/32"
			1-3/4"	



Single Gang Flexi-Guard WP17 Two Gang Flexi-Guard WP217

† Converts to toggle, 1-3/8", 1-5/8", 1-3/4" or 2-1/8" diameter round

‡ Converts to toggle, 1-3/8" or 1-5/8" diameter round

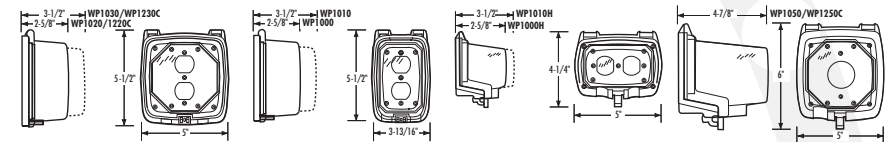
Intermatic Flexi-Guard Weatherproof Receptacle Covers let you handle even more configurations with fewer units. The unique patented inserts and covers allow you to keep even less inventory than before, and cover more jobs out in the field.

Our single gang models handle both vertical or horizontal applications, just by changing the hinge points. Our two-gang models include snap-together, rotating inserts that create combinations for almost every application. With these new Flexi-Guard models, now more than ever, Intermatic is the best NEC code solution under the sun.

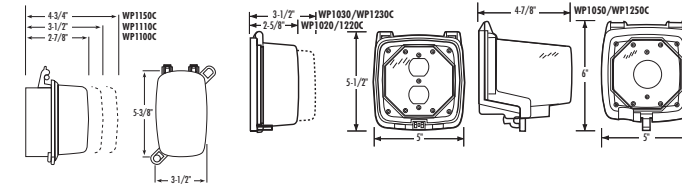
New Features

Single gang plastic models feature pre-adhered gaskets and all covers feature keyhole slots on inserts for the quickest installation available

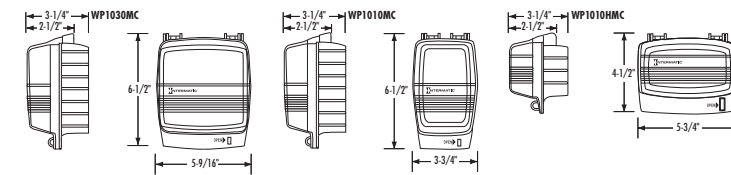
Clear & Opaque Gray Models



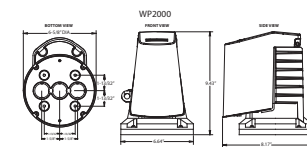
Clear & White Models



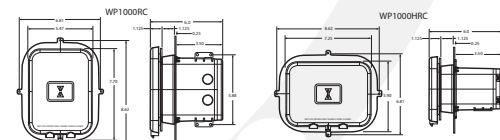
Heavy Duty Die Cast Models



Outlet Post

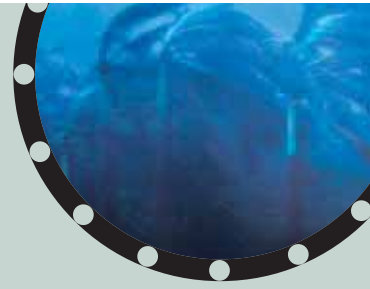


Recessed



Inset Design US Patent #5 280 135
Canadian Patent #2073932

Now you can handle even more with less.



	Patented Single Gang Vertical or Horizontal		Two Gang with Patented Snap-Together Inserts	Patented Die Cast Metal	Patented Two Gang Fixed	Patented Single Gang Fixed		
2-1/4" Standard Depth			Clear WP1220C		Clear WP1020C	Clear WP1000C Vertical WP1000HC Horizontal*	Gray WP1000GC Vertical WP1000HGC Horizontal*	
2-3/4" Standard Depth	Clear* WP1100C	White* WP1100WC						
	Vertical or Horizontal							
3-1/8" Standard Depth			Clear WP1230C	Grey Die Cast WP1010MC Vertical Single Gang WP1030MC Two Gang WP1010HMC Horizontal Single Gang	Clear WP1030C	Clear WP1010C Vertical WP1010HC Horizontal*		
3-5/8" Standard Depth	Clear* WP1110C	White* WP1110WC						
	Vertical or Horizontal							
4-3/4" Standard Depth	Clear* WP1150C		Clear* WP1250C		Clear* WP1050			
	Vertical or Horizontal							
	WP1100 Series Includes 3 Patented Inserts 		WP1200 Series Includes 6 Snap Together Patented Inserts 		WP1000MC Series Includes these Patented Inserts Two Gang Single Gang		WP1000 Series Includes these Inserts 	

* With lockable hasp
 † Converts to toggle, 1-3/8", 1-5/8", 1-3/4" or 2-1/8" diameter round
 ‡ Converts to toggle, 1-3/8" or 1-5/8" diameter round

Insert Design US Patent #5 280 135
 Canadian Patent #2073932



Giving You Total Control

Within both home and work environments, Intermatic has been a leader in innovation for timing, switches and energy controls for more than 110 years. Intermatic provides the industry's broadest line of energy controls, with ratings and innovative features designed to handle any industrial, commercial or residential application.

Presently, the home controls industry is growing at an annual rate of 18 percent. Additionally, industry experts predict that the category of home controls could approach annual sales of \$500 million. Intermatic sees this as a wonderful opportunity, not only to grow our business, but help you grow yours as well – through the best product offerings, programs and support at every step of the way.

ENERGY CONTROLS

Photo Controls



A full line of thermal type photo controls and relay type photo controls provide "dusk-to-dawn" lighting control. The thermal type controls feature a cadmium sulfide photocell and sonic welded polycarbonate case and lens to seal out moisture. The design utilizes a dual temperature compensating bimetal and a metal film resistor for reliable long life operation over ambient temperature extremes. The thermal type photo controls provide a delay action which eliminates loads switching OFF due to car headlights, lightning, etc.

Applications

- Parking Lot Lighting
- Area Lighting
- Car Lot Lighting
- Security Lighting
- Billboard Lighting
- Municipal Lighting
- Roadway Lighting
- Street Lighting



Model
K4321C
UL773A
E42722



C22.2-55
LR38068



K4000
Series
UL773A
E42722



5 Year
Warranty

Fixed Position Mounting, Thermal Type — K4000C Series

Designed to fit into a standard outlet box, a post lamp or wall packs. Model K4321 includes a weatherproof wall plate with neoprene gasket. The UL listing for this model applies to the entire plate assembly when properly mounted to an approved outdoor junction box. All other models are equipped with a 3/8"-18 threaded side mounting, locking nut and washer gasket. All models with 9" leads.

Size – Plate - 4-1/2" (11.4 cm) High, 2-3/4" (7.0 cm) Wide;
Mechanism - 1-5/16" (3.3 cm) W, 1-13/16" (4.6 cm) L, 13/16" (2.1 cm) D.

Model #	Watts Tungsten	VA Ballast	Amps Tungsten	Amps Ballast	Volts
K4021C	1800	1000	15	8.3	120
K4023C	3100-4150	1700-2300	15	8.3	208-277
K4024	3100	1700	15	8.3	208
K4022	3600	2000	15	8.3	240
K4033	4150	2300	15	8.3	277
K4027***	5205	2880	15	8.3	347
K4035*	7200	4000	15	8.3	480
K4321C**	1800	1000	15	8.3	120

Note: Wall plate with gasket available for other models; order No. K4001.

* Not UL listed or CSA certified.

** Wall plate included.

*** Certified by CSA to US and Canadian Standards.

Specifications

Unless noted otherwise, the specifications listed below apply to K4000, K4100, K4200, K4300 & K4500 Series.

Size – See individual models. Most hard wired models supplied with 6" leads. K4000 fixed position models have 9" leads.

Switch Rating – See chart for each series. Note that the ballast wattage rating is based upon a 50% power factor.

Activation – 1 - 5 FC "ON"; 3 - 15 FC "OFF" (without shield on models with shield.)

Color – Gray

Shipping Weight – See individual models.



UL773A
E42722



C22.2-55
LR38068



K4000
Series
UL773A
E42722



5 Year
Warranty

K4021C



K4321C



Light Shield for K4000
Part Number 6LV1352



Photo Controls



Stem Mounting, Thermal Type – K4100 Series

This series features single and multivolt models in both stem mount and stem mount with a swivel. All models are equipped with a light level slide adjustment and provide a 1/2"-14 threaded stem. A washer gasket and locking nut are packaged with each photo control. Models with "M" suffix have heavy duty die cast housings. Model K4251 and K4253 have photo eye located on top and are designed for spot/flood type fixtures.

Size – K4100 Series - 1-9/16" (4.0 cm) Square, 3" (7.6 cm) Long;
K4200 Series - 1/2"-14 threaded swivel, 1-9/16" (4.0 cm) Square, 5-1/2" (14.0 cm) Long;
Model K4236 - 5-3/4" (14.6 cm) High, 3" (7.6 cm) Diameter.

Model #	Watts Tungsten	VA Ballast	Amps Tungsten	Amps Ballast	Volts
K4121C	1800	1000	15	8.3	120
K4121M	2000	1800	16.7	15	120
K4421M	1800	1000	15	8.3	120
K4124	3100	1700	15	8.3	208
K4122	3600	2000	15	8.3	240
K4123C	3100-4150	1700-2300	15	8.3	208-277
K4423M***	3100-4150	1700-2300	15	8.3	208-277
K4133	4150	2300	15	8.3	277
K4127****	5205	2880	15	8.3	347
K4135*	7200	4000	15	8.3	480
K4136M	2000-4625	1800	16.7	8.6	120 or 277
**K4141C*	3000	3000	25	25	120

* Not UL listed or CSA certified.
 ** 1 year warranty.
 *** Model K4423M replaces K4123M
 **** Certified by CSA to US and Canadian Standards.



Stem & Swivel Mounting, Thermal Type – K4200 Series

Model #	Watts Tungsten	VA Ballast	Amps Tungsten	Amps Ballast	Volts
K4221C	1800	1000	15	8.3	120
K4224	3100	1700	15	8.3	208
K4222	3600	2000	15	8.3	240
K4223C	3100-4150	1700-2300	15	8.3	208-277
K4233	4100	2300	15	8.3	277
K4227***	5205	2880	15	8.3	347
K4235*	7200	4000	15	8.3	480
K4236C	1800-4150	1000-2300	15	8.3	120 or 208-277
K4251****	1800	1000	15	8.3	120
K4253****	3100-4150	1700-2300	15	8.3	208-277

* Not UL listed or CSA certified.
 ***Certified by CSA to US and Canadian Standards.



Photo Controls



Locking-Type Mounting, Thermal Type — K4500 Series

Easy to install; just plug in and twist. This series is equipped with standard 3-prong NEMA locking-type plug connections. Incorporates K4000 style thermal switch for reliable long life performance. Complies with ANSI C136.10.

Size – 3-3/4" (9.5 cm) High, 3" (7.6 cm) Diameter.

Model #	Watts Tungsten	VA Ballast	Amps Tungsten	Amps Ballast	Volts
K4521	1800	1000	15	8.3	120
K4524**	3100	1700	15	8.3	208
K4522	3600	2000	15	8.3	240
K4533**	4100	2300	15	8.3	277
K4535**	7200	4000	15	8.3	480

* Ballast rating meets UL testing at 50% power factor.

** Not CSA certified.



UL773
E59121



C22.2-177
LR38068



3/4 lbs
.34 kg



5 Year
Warranty

Accessories for Locking-Type Controls

Pole Bracket Adapter – Model K122 - 105 to 480 Volts; for use with K1200, K4500 or LC4500 Series locking-type controls. K121 – receptacle only, K121-30 receptacle with 30 inch leads.

Shorting Cap – Model K4500 - 105 to 480 Volts; replaces locking-type photo control to complete circuit.



K4521



K122



K4500



K121
K121-30

Low Cost Locking-Type, Thermal Type — LC4500 Series

The LC4500 Series provides low cost reliable control for street lighting and other applications requiring a NEMA twist and lock type plug connection. An integral housing and lens, with UV protection, keeps moisture out and ensures long life. Complies with ANSI C136.10.

Activation – .5 FC minimum "ON"; 15 FC maximum "OFF".

Size – 2-3/4" (7.0 cm) High, 3" (7.6 cm.) Diameter.

Color – Translucent with color coded band for voltage identification.

Model #	Watts Tungsten	VA Ballast	Volts
LC4521C	1000	1000	120
LC4523	1700-2300	1700-2300	208-277
LC4527	5205	2880	347
LC4535**	1000	4000	480
LC4536C	1000-2300	1000-2300	120 or 208-277
LC4521LA	1000	1000	120
LC4523LA	1700-2300	1700-2300	208-277
LC4535LA**	1000	4000	480
LC4536LAC	1000-2300	1000-2300	120 or 208-277

LA Models equipped with 2400 volt open type spark gap arrester.

* Ballast rating meets UL testing at 50% power factor.

** Not CSA certified.



UL773
E59121



C22.2-55
LR38068



.2 lbs
.09 kg



3 Year
Warranty



LC4521C



Photo Controls



K1200



K1100



LC2000

Relay Type Photo Controls With Adjustable Stem or Locking-Type Mounting — K1100, K1200 Series

This series features "instant ON/OFF switching" in two mounting types. Complies with ANSI C136.10.

Series K1100 – Equipped with an adjustable stem for mounting at almost any angle up to 80 degrees. Models equipped with three 6" color coded leads.

Series K1200 – Easy to install using NEMA plug-in locking type connection. Models are equipped with 2400 Volt open type spark gap arrester and standard 3-prong connector.

Size - K1100 Series – 5-3/4" (14.6 cm) High, 3" (7.6 cm) Diameter; 1/2"-14 NPT Stem;

K1200 Series – 3-3/4" (9.5 cm) High, 3" (7.6 cm) Diameter.

Activation – 1 FC "ON"; 3 - 10 FC "OFF"

Model #	Watts Tungsten	VA Ballast	Volts
K1121	1800	1800	105-130
K1122	1800	1800	210-240
K1221	1800	1800	105-130
K1222	1800	1800	210-240

* Ballast rating meets UL testing at 50% power factor.



UL773
E59121



C22.2-55
LR38068



3/4 lbs
.34 kg



5 Year
Warranty



UL773A
E42722

Low Cost Relay Type Photo Control with Locking-Type Mounting — LC2000

Features "Instant ON/OFF Switching". Complies with ANSI C136.10

Size - 2-3/16" (5.6 cm) High, 3-3/16" (8.1 cm) Diameter

Activation – 1 to 3 FC "ON". Turn OFF to turn ON ratio is 4.

Model #	Watts Tungsten	VA Ballast	Volts
LC2000	1000	1800	110-277

Includes 110 Joule MOV Surge Arrester.



UL773
E59121



3/4 lbs
.34 kg



3 Year
Warranty

Photo Controls



Solid State Photo Controls - Locking Type

The K4536SS Photo Control is electronically calibrated and provides reliable control of street lighting and other applications requiring a NEMA plug-in locking type connection. Complies with ANSI C136.10.

The K4536SST is the same as above, but provides a fixed "OFF" time adjustable in half hour increments from 6:00 PM to 2:00 AM and a fixed "ON" time adjustable in half hour increments from 4:00 AM to 8:00 AM. The fixed times are based on a real-time clock that sets itself based on the occurrence of sunrise and sunset.

Operation – Instant "ON", 10 Second Delay "OFF"

Size - same as LC4500 Series

Color - same as LC4500 Series

Model #	Watts Tungsten	VA Ballast	Volts
K4536SS	1000	1800	105-305
K4536SST	1000	1800	105-305

Includes 430 Joule MOV Surge Arrestor.



UL773A
E42722



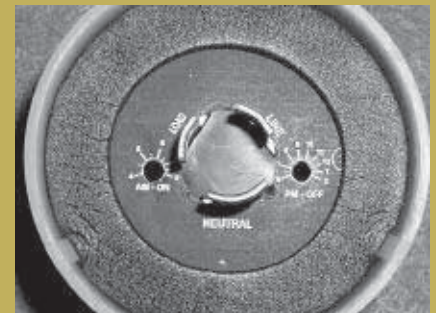
3/4 lbs
.34 kg



5 Year
Warranty



K4536SS



K4536SST



Time Switches



C22.2-177
LR3730
UL917



2.75 lbs
1.25 kg



-40°F
(-40°C)
to
130°F
(54°C)

24 Hour Dial

T100 Series – Designed for industrial, commercial and residential applications. Highest HP ratings in the industry for loads up to 40 amps, providing direct 24 hr. control of most loads. Provides 1 to 12 “ON/OFF” operations each day with minimum ON/OFF times of 1 hour. All models equipped with one “ON” and one “OFF” tripper.

Applications

- Indoor/Outdoor Lighting
- Signs
- Filters
- Air Conditioning
- Electric Fences
- Heating/Ventilating Systems
- Fans
- Conveyers
- Post Lanterns
- Pool Heaters
- Hydrochlorinators
- Blowers
- Pumps
- Music and Signal Systems
- Poultry Foggers

Specifications

Case – Drawn steel 7-3/4" (19.7 cm) H, 5" (12.7 cm) W, 3" (7.6 cm) D in gray finish. Spring hasp, with hole for lock, holds permanently attached, side hinged door closed. Three mounting holes on back plus handy box mounting holes.

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 page for optional enclosures.

Special Voltages and Cycles – See Time Switch Motors page for available motors.

Switch Rating – Each Pole; 40 Amp Resistive, 120-480 VAC; 40 Amp Tungsten, inductive or 1000 VA pilot duty, 120-277 VAC; 2 HP (24 FLA) 120 VAC; 5 HP (28 FLA) 240 VAC single phase; 7-1/2 HP (28 FLA) 208 VAC three phase; 10 HP (28 FLA) 240 VAC three phase.

Model #	Model # w/See-Thru Cover	Model # Plastic Case	Model # Steel NEMA 3R Case	Switch	Clock Motor Volts 60 Hz	AMPS (per pole)	HP Rating
T101	T101PCD82	T101P	T101R	SPST	125	40	2
T102	—	T102P	T102R	SPST	208-277	40	5
T103	T103PCD82	T103P	T103R	DPST	125	40	2
T104	T104PCD82	T104P	T104R	DPST	208-277	40	5
T101B*	—	—	—	SPST	125	40	2
T105	—	—	—	1NO / 1NC**	125	40	2
T106R†	—	—	—	1NO / 1NC**	208-277	40	5

* Separate clock motor terminals for switching circuits not on line voltage.

** Can be wired as SPDT.

† Only available in NEMA 3R case.

For additional trippers (1 ON / 1 OFF per pack), order No. 156T1978A.

Time Switches



24 Hr. w/Skipper, Optional Carryover

T170 Series – Same features as the T100 Series plus a skipper option to omit operation on selected days. Cutout screws are inserted in the dial for days which operation is to be skipped. Provides up to 10 ON/OFF operations each day with min. ON/OFF operations of 1 hour and max. ON time of 20 hours. Includes one CUTOUT tripper (also serves as an “ON” tripper), one “OFF” tripper and three skipping screws.

T170CR Series – Same features as the T170 Series Skipper models plus a min. of 16 hours carryover for maintaining preset schedules during power failures. Carryover automatically rewinds when power resumes; only one hour of rewinding time required for every two hours of power outage. 4PST models are ideal for 3-phase load control.

Specifications

Case – T170 Series same as T100 except as noted under Optional Enclosures. T170CR only in NEMA 3R drawn steel 9-3/8" (23.8 cm) H, 5-1/2" (14.0 cm) W, 3-5/8" (9.2 cm) D in gray finish. Hasp, with hole for lock, holds permanently attached, side-hinged door closed. Bracket plus two holes on back below switch for mounting. Separate grounding terminal.

Optional Enclosures – 4 pole and 2 NO/ 2 NC models not available in standard or plastic case; only in NEMA 3R steel case. T170CR only available in steel NEMA 3R enclosure.

Special Voltages and Cycles – See Time Switch Motors for available motors. Contact factory for availability of time switch with 50 cycle or other voltages.

Special Voltages and Cycles – Same as T100 Series.

Switch Rating – Same as T100 Series.



C22.2-177
LR3730
UL916



-40°F
(-40°C)
to
130°F
(54°C)



2.75 lbs
1.25 kg



Same as
T100
Series

Model #	Model # Steel NEMA 3R Case	Switch	Clock Motor Volts 60 Hz	AMPS (per pole)	HP Rating
T171		SPST	125	40	2
T172		SPST	208-277	40	5
T173	T173R	DPST	125	40	2
T174	T174R	DPST	208-277	40	5
T175		1NO / 1NC**	125	40	2
T176		1NO / 1NC**	208-277	40	5
T1471BR*		4PST	125	40	2
T1472BR*		4PST	208-277	40	5
T1475BR*		4PST	480	40	5
T1871BR*		2NO / 2NC***	125	40	2
T171CR		SPST	125	40	2
T173CR		DPST	125	40	2
T174CR		DPST	208-277	40	5
T1471BCR*		4PST	125	40	2

* Separate clock motor terminals for switching circuits not on line voltage.

** Can be wired as SPDT.

*** Can be wired as DPDT.

For additional trippers (1 ON / 1 OFF / 1 CUTOUT per pack), order No. 156T1948A.

For additional skipper screws (3 skipper screws per pack), order No. 156T3085A.



Time Switches

Portable

This portable cord connected time switch performs all the functions of the T100 and T170 series time switches plus it is completely portable eliminating the need for wiring. Supplied complete with 6' grounded cord set and receptacle installed.

Applications (Indoor Only)

- Photo Copiers
- Portable Lights
- Signs
- Space Heaters
- Electric Water Heaters
- Air Conditioning
- Fans
- Poultry Foggers
- Ventilating Systems
- Motors
- Pumps
- Blowers

Specifications

Case – Drawn steel 7-3/4" (19.7 cm) High, 5" (12.7 cm) Wide, 3" (7.6 cm) Deep in gray finish. Spring hasp, with hole for lock, holds permanently attached, side hinged door closed. Three mounting holes on back plus handy box mounting holes.

Knockouts – Not applicable; prewired cord and receptacle.

Switch Rating – 15 Amp Resistive, 15 Amp Tungsten; 345 VA pilot duty (15 FLA), 125 VAC.

Model #	Switch	Clock Motor Volts 60 Hz	Amps (per pole)	Skipper Wheel
P171-30	SPST	125	15	Yes

For additional trippers Model Series P170 (1 ON/1 OFF/1 CUTOFF per pack), order No. 156T1948A.



120V - 15A Receptacle



C22.2-177
LR3730
UL917

3 lbs
1.36 kg

-40°F
(-40°C)
to
130°F
(54°C)

Time Switches



24 Hour Dial w/Skipper

The T1900 Supervisor Series provides up to 96 operations (48 ON /48 OFF) every 24 hours. This series provides operations with minimum ON / OFF times of 15 minutes. Trippers slide in and out of dial for fast accurate setting. The skipper models provide for operations to be omitted on selected day(s) of the week. Model with carryover provides a minimum of 16 hours of carryover to maintain preset schedules within +/- 2% accuracy during power failures. The carryover automatically rewinds when power resumes. Only one hour is required to rewind the carryover for each two hours of power outage.

Applications

- Oil Well Pumps
- Filters
- Blowers
- Poultry Feeders
- Heaters
- Process Equipment
- Recorded Music
- Dairy Equipment
- Fans
- Silo Unloaders
- Poultry Foggers

Specifications

Case – Drawn steel 7-3/4" (19.7 cm) High, 5" (12.7 cm) Wide, 3" (7.6 cm) Deep in gray finish. Spring hasp, with hole for lock, holds permanently attached, side hinged door closed. Three mounting holes on back plus handy box mounting holes.

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 – See Time Switch Motors for available motors.

Switch Rating – 20 Amp maximum 125, 208-277 and 480 VAC; 1/2 HP , 125 VAC; 1 HP, 250 VAC

Power Input – 5 Watts maximum.

Model #	MODEL # STEEL NEMA 3R CASE	Switch	Clock Motor Volts 60 Hz	Spring Wound Carryover	Amps	Skipper Wheel
T1905		SPDT	125	No	20	No
T1905E		SPDT	480	No	20	Yes
T1906		SPDT	208-277	No	20	No
T1975	T1975R	SPDT	125	No	20	Yes
T1976	T1976R	SPDT	208-277	No	20	Yes
T1975E	T1975ER	SPDT	480	No	20	Yes

For additional trippers (12 per pack), order No. 156T1950A.
Replacement Snap Switch 133T701A.



C22.2-177
LR3730
UL917



2.75 lbs
1.25 kg



-40°F
(-40°C)
to
130°F
(54°C)



Time Switches

Short Range Cycle Timer

Short Range Cycle Timers provide repeat cycling for "ON" times. Ten combination "ON/OFF" trippers supplied with each switch.

Applications

- Ventilating Fans
- Fogging Equipment
- Process Equipment
- Spraying Equipment
- Poultry Feeders
- Livestock Feeders
- Pumps
- Poultry Fans
- Bulk Milk Coolers

Specifications

Case – Same as T100 Series.

Knockouts – Same as T100 Series.

Optional Enclosures – Same as T100 Series.

Switch Rating – 20 Amp Resistive 125, 208-277 VAC; 1/2 HP, 125 VAC; 1 HP, 250 VAC

Model #	Switch	Clock Motor Volts 60 Hz	Dial Cycle	Tripper Actuating Time	Amps
C8815	SPDT	125	10 Min.	5 Sec.	20
C8835	SPDT	125	30 Min.	15 Sec.	20
C8865	SPDT	125	1 Hr.	30 Sec.	20
C8845	SPDT	125	4 Hr.	120 Sec.	20
C8866	SPDT	250	1 Hr.	30 Sec.	20

Note: The life of the switch contacts is affected by the size and type of the controlled load. The expected minimum life at 20 amps (resistive) load is 100,000 cycles.

Replacement Snap Switch 133T773A.

For additional trippers (12 trippers per pack), order No. 156T1950A.



C22.2-177
LR3730
UL917

2.75 lbs
1.25 kg

-40°F
(-40°C)
to
130°F
(54°C)

Time Switches



Sprinkler/Irrigation Timer with 14-Day Skipper

These irrigation timers permit 1 to 60 "ON" operations every 24 hours. This series is designed for water metering in increments of 12 minutes to 20 hours - 45 minutes for maximum conservation of precious water resources. The 14-day skipper feature permits irrigation to be omitted on selected day(s) and also provides for "every other" day operation. The "ON/OFF/AUTOMATIC" switch allows shutdown during rainy days or extended watering during dry periods without disturbing the automatic cycle set on dial.

Applications

- Multi-Station Hydro Indexing Valves
- Greenhouses
- Lawn Sprinkling
- Pumps
- Irrigation Control
- Feeders
- Drip Irrigation Systems

Specifications

Case – Plastic NEMA 3R case. Cases include hanging bracket plus two mounting holes on back below switch for mounting.

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

Switch Rating –

T8805P101C – 15 Amps, 125 VAC, 1/2 HP, SPST.

R8806P101C – 25 Amps, 208-277 VAC, 2 HP, DPST relay.

R8815P101C – 25 Amps, 120 VAC, 1-1/2 HP, DPST relay.

R8816P101C – 25 Amps, 208-277 VAC, 3 HP, DPST relay.

T8845PV – 125 VAC, SPST, output 24 Volts - 20VA

Model #	Switch	Motor Voltage 60 Hz	Output Voltage 60 Hz	AMPS (per pole)	HP Rating
T8805P101C	SPST	125	—	15	1/2
R8806P101C	DPST	208-277	—	25	2
R8815P101C*	DPST	120	—	25	1-1/2
R8816P101C*	DPST	208-277	—	25	3
T8845PV**	SPST	125	24	20VA	—

* Includes rain sensor input terminals- rain sensor not supplied.

** Includes 24 volt - 20 VA transformer.

For additional trippers (12 per pack), order No. 156T1950A.



C22.2-177
LR3730
UL917



3.75 lbs
1.7 kg



-40°F
(-40°C)
to
130°F
(54°C)



Time Switches

Timing Control Center, 7-Day Dial with Carryover

This series provides photo control initiated / time switch terminated control. These time switches provide a different "ON/OFF" program each day of the week and a spring wound carryover. These time switches are recommended for applications where you need to turn a load "ON" at dusk and "OFF" at a preset time. The spring wound carryover provides a carryover of 16 hours minimum to maintain accurate load control even during power failure. When power resumes, the carryover automatically rewinds itself. Only 1 hour is required to rewind the carryover for each 2 hours of outage. The three models provide control of 1, 2 or 3 circuits. A light level adjustment is provided on the photo control. All models have single pole double throw switches and manual circuit by-pass switches.

Unit is designed to control the contactor control circuit only. It is not recommended for direct switching of tungsten, mercury vapor or similar loads.

Applications

- Parking Lot Lighting
- Landscape Lighting
- Billboard Lighting
- Entryway Lighting
- Storefront Lighting
- Stairway Lighting
- Car Lot Lighting
- Security Lighting

Specifications

Case – Steel in gray finish 12-1/2" (31.7 cm) high, 8-1/4" (21.0 cm) wide, 4" (10.2 cm) deep. Indoor type with toggle action drawbolt and locking feature. Four mounting holes on back. Separate grounding terminal.

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

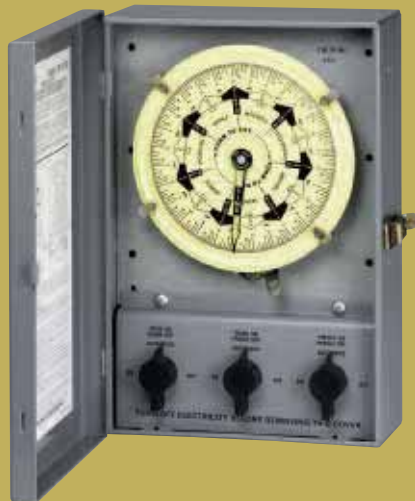
Optional Enclosures – None available.


Contact Rating – 15 Amp, 1/2 HP, 125/250 VAC; 420 VA pilot duty; 150 Watts Tungsten, 125 VAC (May also be used with 24 volt systems if wired in accordance with National Electrical Code Regulations.)


Model #	Description	Clock Motor Volts 60 Hz
T51211BC	Circuit A - Sunset, Photo Control ON - Preset Time Switch OFF	120
	Circuit B - Sunset, Photo Control ON - Sunrise, Photo Control OFF	—
T51311BC	Circuit A - Sunset, Photo Control ON - Preset Time Switch OFF	120
	Circuit B - Sunset, Photo Control ON - Sunrise, Photo Control OFF	—
	Circuit C - Preset Time Switch ON - Preset Time Switch OFF	—


*All models have separate clock motor terminals for switching circuits not on line voltage.
For additional trippers (7 ON / 7 Off per pack), order No. 156T2548A.*

See Next Generation Electronic Time Switches with Astro Feature




 C22.2-177
 LR3730
 UL917


 10.5 lbs
 4.8 kg


 -40°F
 (-40°C)
 to
 130°F
 (54°C)

Time Switches



Compact, 7-Day

The T2000 Series provides up to 84 (42 "ON/OFF") operations each week. Minimum "ON/OFF" times for this series are 2 hours each providing up to 6 "ON/OFF" operations each day.

Applications

- Heating
- Air Conditioning
- Ventilating
- Defrost Control
- Lights
- Pumps
- Motors
- Fans

Specifications

Case – Drawn steel 7-3/4" (19.7 cm) high, 5" (12.7 cm) wide, 3" (7.6 cm) deep in gray finish. Spring hasp, with hole for lock, holds permanently attached, side hinged door closed. Three mounting holes on back plus handy box mounting holes.

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 – See Time Switch Motors for available motors.

Switch Rating – 20 Amp Resistive, 125 and 208-277 VAC; 1/2 HP 125 VAC; 1 HP 250 VAC

Model #	Switch	Clock Motor Volts 60 Hz	Amps
T2005	SPDT	125	20
T2006	SPDT	208-277	20

For additional trippers (12 per pack), order No. 156T1950A.
Replacement Snap Switch 133T701A.



C22.2-177
LR3730
UL917



2.75 lbs
1.25 kg



-40°F
(-40°C)
to
130°F
(54°C)



Time Switches



C22.2-177
LR3730
UL917



Models
without
carryover
8 lbs
3.6 kg



Models
with
carryover
9 lbs
4.1 kg



-40°F
(-40°C)
to
130°F
(54°C)

7-Day Dial With & Without Carryover

These time switches provide a different "ON/OFF" program each day of the week. They also provide for 4 pole single throw and 4 pole (2NO/2NC) switching. This series provides true 7-day load control with minimum ON and minimum OFF times of 3-1/2 hours. The "BC" models with carryover provide a carryover of 16 hours minimum to maintain accurate load control even during power failure. When power resumes, the carryover automatically rewinds itself. Only 1 hour is required to rewind the carryover for each 2 hours of outage.

Applications

- Heating
- Outdoor Lighting
- Ventilating Systems
- Air Conditioning
- Motors
- Fans
- Pumps
- Signs
- Filters
- Indoor Lighting
- Billboards
- 3 Phase Loads

Specifications

Case – Steel in gray finish 12-1/2" (31.7 cm) high, 8-1/4" (21.0 cm) wide, 4" (10.2 cm) deep. Indoor type with toggle action drawbolt and locking feature. Four mounting holes on back. Separate grounding terminal.

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

Optional Enclosures – See Time Switch Cases for optional enclosures.

Special Voltages and Cycles – See Time Switch Motors for available motors. Contact factory for availability of time switch with 50 cycle or other voltages.

Switch Rating – Each Pole 40 amp resistive, 120-480 VAC; 40 amp tungsten, inductive or 1000 VA pilot duty, 120-277 VAC; 2 HP (24 FLA) 120 VAC; 5 HP (28 FLA) 240 VAC single phase; 7-1/2 HP (28 FLA) 208 VAC three phase; 10 HP (28 FLA) 240 VAC three phase.

Carryover – Minimum time - mechanical operation: 16 hours. Carryover accuracy +/-2%.

Model I#	Model # Steel NEMA 3R Case	Model with CarryOver	Switch	Clock Motor Volts 60 Hz	Amps (per pole)
T7401B	T7401BR	T7401BC	4PST	125	40
T7402B		T7402BC	4PST	208-277	40
T7801B		T7801BC	2NO/2NC	125	40
T7802B		T7802BC	2NO/2NC	208-277	40

* All models (B or BC suffix) have separate clock motor terminals for switching circuits not on line voltage.
For additional trippers (7 ON / 7 OFF per pack), order No. 15672548A.

Time Switches



Astro Dial With Skipper & Carryover

This time switch self adjusts for seasonal changes. The astronomic dial automatically adjusts itself as the days grow shorter or longer. A skipper provides lighting control to be omitted on selected day(s) of the week. The carryover is designed to maintain preset schedule during power outages for a minimum of 16 hours. Only 1 hour is required to rewind the carryover for each 2 hours of outage. The 3PST switch configuration provides for control of 3-phase lighting. Three skipper screws are furnished.

Lighting Applications

- Parking Lots
- Landscape Lights
- Stairways
- Billboards
- Entryways
- Security
- Storefronts
- Car Lots

Specifications

Case – NEMA 3R drawn steel 11-1/2" (29.2 cm) high, 8-1/4" (20.9 cm) wide, 4-1/2" (11.4 cm) deep in gray finish. Hasp, with hole for lock, holds permanently attached, side hinged door closed. Mounting bracket plus two holes below switch on back for mounting. Separate grounding terminal.

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

Optional Enclosures – None.

Switch Rating – Each pole: 40 amp tungsten up to 277 VAC; 1 HP, 120 VAC; 690 VA pilot duty.

Model #	Switch	Clock Motor Volts 60 Hz	Amps
V45471CR*	3PST	125	40
V45472CR*	3PST	208-277	40
V45471R	3PST	125	40
V45472R	3PST	208-277	40

Indicate City and State nearest installation when ordering.

* Includes spring wound carryover.

For additional skipper screws (3 skipper screws per pack), order No. 156T1957A.

For Electronic Time Switches which offer Astro Feature please see pages 42-44



UL917
E10694



C22 2-177
LR3730



Models
V45471C
R &
V45472C



Other
Models
5 lbs
2.3 kg
R
9 lbs
4.1 kg



-40°F
(-40°C)
to
130°F
(54°C)



Time Switches



The
"LITTLE
GRAY BOX"®



C22.2-177
LR3730
UL917



2.75 lbs
1.25 kg



-40°F
(-40°C)
to
130°F
(54°C)

Water Heater Time Switches

The WH40 provides a convenient external override switch. Utilities in many areas of the country offer two electric rates for residential or commercial customers. One rate has the regular daytime electrical rate, the other is "off peak" rate. The off peak rate provides customers with "lower-priced" electricity during the nighttime and weekend periods. These time switches allow the customer to shift electricity use into these off-peak time periods in an attempt to save utility costs.

Applications

Water Heater Control for:

- Residential
- Commercial
- Industrial
- Institutional / Schools
- Military Facilities

Specifications

Case – Drawn steel 7-3/4" (19.7 cm) High, 5" (12.7 cm) Wide, 3" (7.6 cm) Deep in gray finish. Spring hasp, with hole for lock, holds permanently attached, side hinged door closed. Three mounting holes on back plus handy box mounting holes.

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

Special Voltages and Cycles – See Time Switch Motors for available motors.

Switch Rating – 40 Amp Resistive, Inductive or Tungsten 120-277 VAC; 1000 VA pilot duty 120-277 VAC; 2 HP (24 FLA) 125 VAC; 5 HP (28 FLA) 240 VAC.

Model #	Switch	Clock Supply Volts 60 Hz	Watts	External Switch	Amps/Pole
T104-20	DPST	208-240	10000	No	40
WH40	DPST	250	10000	Yes	40

For additional trippers (1 ON / 1 OFF per pack), order No. 156T1978A.

Time Switches



Electronic Water Heater Timers

These time switches provide automatic control for electric water heaters. They provide to-the-minute accuracy in programming and time keeping. The time switches can be programmed for repeat daily scheduling, 5-day working week scheduling, weekend scheduling or any individual day scheduling. Timers can be scheduled for operation during the lowest time-of-day rates or to switch off the electric heater during period of utilities peak power usage. The time switch can be set to operate for up to 6 on/off operations daily for a maximum of 42 on/off operations weekly. Both models provide a convenient external override switch and LED load indicator for ease in scheduling hot water as required for extra hot water demands. The timers include a "AA" alkaline battery carryover which protects both time keeping and program information for a minimum of 3 years.

Applications

Water Heater Control for:

- Residential
- Institutional
- Industrial
- Military Facilities
- Schools
- Commercial

Specifications

Case – Drawn steel 7-3/4" (19.7 cm) H x 5" (12.7 cm) W x 3" (7.6 cm) D in gray finish. Spring hasp, with hole for lock, holds permanently attached, side hinged door closed. Three mounting holes on back plus handy box mounting holes.

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

Switch Rating – 30 Amp Resistive or Inductive 120-240 VAC; 1 HP, 120 VAC; 1-1/2 HP, 240 VAC; 5 Amps Tungsten, 120/240 VAC.

Model #	Switch	Clock Supply Volts 50/60 Hz	Watts	External Switch	Amps/Pole
EH10	SPST	120	3600	Yes	30
EH40	DPST	240	7200	Yes	30



With Manual External Override and Load Indicator

50/60 Hz Operation



UL916
E76987



C22.2-177
LR3730



2.75 lbs
1.25 kg



-4°F
(-20°C)
to
122°F
(50°C)



A. 2T2500GA
Plastic Case NEMA 3R



B. 2T2040GA
Standard Case NEMA 1



C. 2T511GA
Steel Indoor/Outdoor Case NEMA 3R



D. TS100RS
Steel Indoor/Outdoor Case NEMA 3R

UL & CSA apply to all enclosures shown.



UL917
E10694



C22.2-177
LR3730

A. Plastic Case

Ends rusting problems forever.

Made of heavy-duty industrial grade plastic, Intermatic's rainproof all plastic case is perfect for applications where high humidity and/or dust can be a problem. Developed for use with pool and spa equipment, the non-corroding plastic case is useful for applications in other high moisture areas such as car washes, industrial water spray areas, etc; NEMA 3R case.

A hasp with a hole for lock holds the side-hinged door closed. A bracket plus two holes below the switch on the back are for mounting. Has five combination 1/2 - 3/4" nominal knockouts, one on back and each side of case, two on bottom.

Model Number	Description	Weight
2T2500GA*	Indoor / Outdoor Plastic Case – 9-3/8" x 5-1/2" x 3-3/4"	1.3 lbs
2T2502GA*	Beige Indoor / Outdoor Plastic Case – 9-3/8" x 5-1/2" x 3-3/4"	1.3 lbs

* Available for SERIES T100, T170, T180, T1100, T1200, T1400, T1900, T2000, C8800, ET100C, ET170C, ET700C and models EH10, EH40, ET279C, ET70115, ET70215, and ET8000 series

B. Standard Case

Drawn steel with gray powder coat paint finish. Spring hasp (with hole for seal or lock) holds permanently attached hinged door closed. Has combination 1/2" - 3/4" nominal knockouts, one on back and on each side, and two on bottom. (Except "P" Series switches which are equipped with cord-connection and receptacle.) Convenient mounting holes. NEMA Type 1.

Model Number	Description	Weight
2T2040GA*	Standard Indoor Case – 7 3/4" x 5" x 3"	1.4 lbs
2T2292GA**	Indoor Case – 12-1/2" x 8-1/4" x 3-7/8"	7.0 lbs

* Available for SERIES T100, T170, T180, T1100, T1200, T1400, T1900, T2000, C8800, ET100C, ET170C, ET700C and models EH10, EH40, ET279C, ET70115, ET70215, and ET8000 series

** Available for SERIES T7400B, T7800B, T7400BC and T7800BC.

C. Indoor-Outdoor Case

For protecting time switch from rain, sleet, snow and ice. Drawn steel with gray or beige powder coat paint .036" construction with side-hinged door. Hasp provided for lock. Has combination 1/2-3/4" nominal knockouts, one on back and each side of case, and two on bottom. Separate grounding terminal. Convenient mounting holes. NEMA 3R.

Model Number	Description	Weight
2T511GA*	Standard Indoor/Outdoor Case – 9-3/8" x 5-1/2" x 3-5/8"	2.5 lbs
2T2485GA*	Beige Standard Indoor/Outdoor Case – 9-3/8" x 5-1/2" x 3-5/8"	2.5 lbs
2T2331GA**	Indoor/Outdoor Case – 9-3/8" x 5-1/2" x 3-5/8"	2.5 lbs
2T2293GA***	Indoor/Outdoor Case – 12-1/2" x 8-1/4" x 3-7/8"	2.5 lbs
2T1985GR****	Indoor/Outdoor Case – 9-3/8" x 5-1/2" x 3-5/8"	2.5 lbs

* Available for SERIES T100, T170, T180, T1100, T1200, T1400, T1900, T2000, C8800, ET100C, ET170C, ET700C and models EH10, EH40, ET279C, ET70115, ET70215, and ET8000 series

** Available for SERIES T100CR, T170CR, T1400BR, T1400BCR, T1800BR and T1800BCR.

*** Available for SERIES T7400B, T7800B, T7400BC and T7800BC.

**** Available for SERIES LS7000 only.

D. Stainless Steel Indoor-Outdoor Case

Model Number	Description	Weight
TS100RS	Stainless Steel Indoor-Outdoor Case – 9 7/8" x 6 1/2" x 3 1/5"	3.5 lbs

* Available for SERIES T100, T170, T1400, T1900, T2000, C8800, ET100C, ET170C, ET700C, EH40, ET279C, ET70115, ET70215 and ET8000.

Time Switch Cases



E. 2-in-1 Raintight Case and Panel

For use where 2 time switches are to be mounted side by side. Heavy-duty spot-welded raintight construction with powder coat paint. Hasp (with hole for lock) holds permanently attached hinged door closed. Combination 1/2" - 3/4" nominal knockouts conveniently located (two on back, five on bottom and one on each side). Top mounting brackets plus two holes below switch level on back of case.

Model Number	Description	Weight
T10000R (replaces 2T2089GA)*	2-in-1 Indoor/Outdoor Case – 10-1/2" x 10-1/2" x 4"	6.5 lbs
T30000R*	Indoor/Outdoor Panel – 16-3/4" x 10-1/2" x 4-1/4"	11.0 lbs
T40000R*	Indoor/Outdoor Panel – 20-3/4" x 12-3/4" x 4-1/4"	17.0 lbs

* Available for SERIES T100, T170, T180, T1900, T2000 and C8800. NOT FOR T1400/T1800/T1900 MODELS WITH BCR SUFFIX.

F. Flushmount Case

For concealing mechanism in wall and giving a finished, flushed appearance. Heavy-duty, .063" formed steel construction with hinged door. Gray finish with powder coat paint. Combination 1/2" - 3/4" nominal knockouts one each side, and two on bottom, plus one 1" knockout on top and bottom. Convenient mounting holes. With or without key lock. Cutout 9-1/8" x 6" x 4-1/8" deep; flange 11" x 8"

Model Number	Description	Weight
2T308A*	Standard Flushmount w/Lock	6.5 lbs
2T2365GA**	Flushmount Case w/Lock	7.0 lbs
6ET1398GA	Flush Cover for ET70415CR and ET70415CR24	2.5 lbs
2T2366GA	Flush Cover for ET70415CR and ET70415CR24 with lock	2.5 lbs

* Available for SERIES T100, T170, T180, T1900, T2000 and C8800. NOT FOR T1400/T1800/T1900 MODELS WITH BCR SUFFIX.

** Available for SERIES ET100C, ET170C, ET700C and models EH10, EH40, ET279C, ET7115C, ET7215C, ET70215C and ET70115C.

G. Mounting Brackets

Heavy gauge steel mounting bracket mounts to a standard symmetrical rail TS35 according to DIN46277 and EN50022. Ideal for panel mounting of mechanical or electronic time switch controls, along side of other DIN rail mountable electrical devices. This snap-in type bracket accepts a wide range of Intermatic time switches including most T100, T170, T180, T1900, T2000, C8800, ET100, ET170, ET700 and ET70000 time switches.

Model Number	Description	Weight
22T535GR	Din Rail Bracket – 6" x 5" x 2"	1.0 lbs
22T338GR	Surface Mount Snap-in Bracket – 6" x 5" x 2"	1.0 lbs



E. T10000R
2-in-1 Raintight Case



F. 2T2365GA
Flushmount Case

Surface Mount Bracket



G. 22T338GR

Din Rail Bracket



22T535GR



UL917
E10694



C22.2-177
LR3730

UL & CSA apply to all enclosures shown.



Electronic Energy Controls 24-Hour Electronic Time Switches

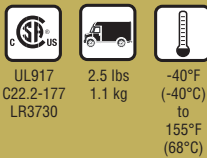


Applications:

- 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



ET100 Series 24-Hour Time Switch (Same Operation Each Day)

These time switches provide the same dependable and uncomplicated performance as the T101 mechanical time switch...plus to-the-minute programming for accurate load control and reduced energy costs. Up to 8 set points or events (4 ON/4 OFF) can be preset to automatically repeat on a daily basis. The program can be overridden at any time by placing the selector switch in the Manual position. Two industrial grade "AA" Alkaline batteries provide 3 years minimum program and timing protection.

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.
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 – Except model ET100C. 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. Models ET105C 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 – 23 hours 59 minutes.

Engineering Specification

24 Hour Electronic Time Switch

The time switch shall be a solid state electronic control capable of permitting 8 ON/OFF set points to be distributed on a daily 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 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 or permanent override. Time switch shall operate over a temperature range of -40°F (-40°C) to 155°F (68°C).

An industrial grade AA alkaline battery shall protect program information and time-of-day for a minimum of 3 years. Switch configuration to be _____ (SPST) or (DPST) with a UL 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), (120-277 volts) 50/60 Hz source. The time switch shall be enclosed in a lockable steel NEMA 1 rated enclosure. The time switch shall be UL listed under UL category 916 Energy Management Equipment and shall be INTERMATIC Model _____.

Model#	Circuits	Switch	Clock Voltage	Amp Rating	HP Rating	Enclosure
ET100C	1	SPST	120	30	1HP	NEMA1
ET100CM ¹	1	SPST	120	30	1HP	Mech.
ET101C	1	SPST	120	30	1HP / 2HP	NEMA1
ET102C	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA1
ET103C	1	DPST	120	30	1HP / 2HP	NEMA1
ET104C	1	DPST	120/208/240/277	30	1HP / 2HP	NEMA1
ET104CP ²	1	DPST	120/208/240/277	30	1HP / 2HP	NEMA3R
ET105C	1	SPDT	120	10/30	1HP / 2HP	NEMA1

¹Mechanism only no case.

²NEMA 3R UV resistant polycarbonate plastic case.

Electronic Energy Controls

7-Day Electronic Time Switches



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 30 Amp Electronic Time Switches

The time switch shall be a solid state electronic control capable of permitting 20 ON/OFF set points to be distributed on independent daily schedules through a 7-day time period. 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 LCD readout to show day of week and time-of-day using 12 hour AM/PM indicator. The time switch shall provide a manual override control for both temporary or permanent override. Time switch shall operate over a temperature range of -40°F (-40°C) to 155°F (68°C). An industrial grade AA alkaline battery shall protect program information and time-of-day for a minimum of 3 years. Switch configuration to be _____ (SPST) or (DPST) with a UL 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), (120-277 volts) 50/60 Hz source. The time switch shall be enclosed in a lockable steel NEMA 1 rated enclosure. The time switch shall be UL listed under UL category 916 Energy Management Equipment and shall be INTERMATIC Model _____.

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.



ENERGY CODE UPDATE

In 2002 the Department of Energy (DOE) settled on ASHRAE 90.1-1999 as the commercial building standard for state building energy codes acting on its authority under the Energy Conservation & Production Act. The deadline set by the DOE for state compliance was July 15, 2004 by which each state must enact energy codes at least as strict as the standard or provide justification for non-compliance.

Intermatic offers a variety of products to assist the specifying engineer and contractor with meeting the ASHRAE 90.1-1999 requirements including the Next Generation series of programmable time switches, spring wound and electronic in-wall timers, and a full line of photo controls.



UL917
C22-2-177
LR3730



2.5 lbs
1.1 kg



-40°F
(-40°C)
to
155°F
(68°C)



Electronic Energy Controls 7-Day Electronic Astronomic Time Switches

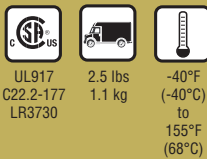


Applications:

- 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



CPD82
NEMA 3R with clear cover

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 – 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. Model ET8115C 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 "AAA" 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 30 Amp Electronic Time Switches

The time switch shall be a solid state electronic control capable of permitting 14 ON, 14 OFF set points to be distributed on independent daily schedules through a 7-day time period with 1 astro ON and 1 astro OFF set point per controlled channel. 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 LCD readout to show day of week, time-of-day, and date using 12 hour AM/PM indicator. The time switch shall provide a manual override control for both temporary or permanent override. Time switch shall operate over a temperature range of -40°F (-40°C) to 155°F (68°C).

An industrial grade AAA alkaline battery shall protect program information and time-of-day for a minimum of 3 years. Switch configuration to be _____ (SPST) or (DPST) with a UL 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), (120-277 volts) 50/60 Hz source. The time switch shall be enclosed in a lockable steel NEMA 1 rated enclosure. The time switch shall be UL listed under UL category 916 Energy Management Equipment and shall be INTERMATIC Model _____.

Model#	Circuits	Switch	Clock Voltage	Amp Rating	HP Rating	Enclosure
ET8015C	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA1
ET8015CPD82	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA3R
ET8015CR ¹	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA3R
ET8115C	1	SPDT	120/208/240/277	10/30	1HP / 2HP	NEMA1
ET8115CPD82	1	SPDT	120/208/240/277	10/30	1HP / 2HP	NEMA3R
ET8115CR ¹	1	SPDT	120/208/240/277	10/30	1HP / 2HP	NEMA3R
ET8215C ^{2,3}	2	SPST	120/208/240/277	30	1HP / 2HP	NEMA1
ET8215CPD82 ^{2,3}	2	SPST	120/208/240/277	30	1HP / 2HP	NEMA3R
ET8215CR ^{1,2,3}	2	SPST	120/208/240/277	30	1HP / 2HP	NEMA3R

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.

Electronic Energy Controls

365-Day Electronic Astronomic Time Switches



ET70000 Series 365-Day Time Switch (1 & 2 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, 1,000 + 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 hours 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 – 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.

ON/OFF Events – 1,000+ Events.

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 – 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 1, 2, & 4 Circuit Electronic Astronomic Time Switches

The time switch shall be a solid state electronic control capable of permitting 1000 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 or 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 Normally Closed Contacts 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 _____ (ET70115C, ET70115CR or ET70115CR24 1-circuit) (ET70215C, ET70215CR or ET70215CR24 2-circuits)

Model#	Circuits	Switch	Clock Voltage	Amp Rating	HP Rating	Enclosure
ET70115C	1	SPDT	120/208/240/277	20	1HP / 2HP	NEMA1
ET70115CR ¹	1	SPDT	120/208/240/277	20	1HP / 2HP	NEMA3R
ET70115CR24 ¹	1	SPDT	24	20	1HP / 2HP	NEMA3R
ET70215C ^{2,3}	2	SPDT	120/208/240/277	20	1HP / 2HP	NEMA1
ET70215CR ^{1,2,3}	2	SPDT	120/208/240/277	20	1HP / 2HP	NEMA3R
ET70215CR24 ^{1,2,3}	2	SPDT	24	20	1HP / 2HP	NEMA3R

¹NEMA 3R drawn steel enclosure.

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

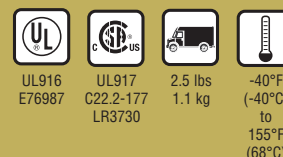
³Complies with California Title 24 for multi-level outdoor lighting control.



ASHRAE 90.1-1999 Section 9.2.1.3 Exterior Lighting Control

Lighting for all exterior applications not exempted in 9.1 and 9.3.2 shall be controlled by a photosensor or astronomical time switch that is capable of automatically turning off the exterior lighting when sufficient daylight is available or the lighting is not required.

The Intermatic Next Generation series provides an easy to program time-of-day lighting control. The multiple zones, as required in the standard, are available in 1, 2, 4, 8, or 16 zones of control. Space control for each zone can be provided by a remote timed override. Each override can be set for the code required maximum of four hours.





Electronic Energy Controls 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



UL916
E76987



UL917
C22.2-177
LR3730



2.5 lbs
1.1 kg



-40°F
(-40°C)
to
155°F
(68°C)

ET70000 Series 365-Day Time Switch (4, 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 (8 & 16 circuit models only), 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 hours 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 – 4-Circuit NEMA 3R – Heavy duty .047" 18 gauge steel in gray finish; 12-1/2" (31.7 cm) High, 8-1/4" (21.0 cm) Wide, 4" (10.2 cm) Deep. 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 – 4-Circuit - 1,000+ 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.

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 or 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, 120240 VAC; Normally Closed Contacts 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
ET70415CR ¹	4	SPDT	120/208/240/277	20	1HP / 2HP	NEMA3R
ET70415CR24 ¹	4	SPDT	24	20	1HP / 2HP	NEMA3R
ET70815CR ¹	8	SPDT	120/208/240/277	20	1HP / 2HP	NEMA3R
ET70815CR24 ¹	8	SPDT	24	20	1HP / 2HP	NEMA3R
ET71615CR ¹	16	SPDT	120/208/240/277	20	1HP / 2HP	NEMA3R
ET71615CR24 ¹	16	SPDT	24	20	1HP / 2HP	NEMA3R

¹Complies with California Title 24 requirements for multi-level outdoor lighting control.

Electronic Energy Controls Next Generation Programming Software



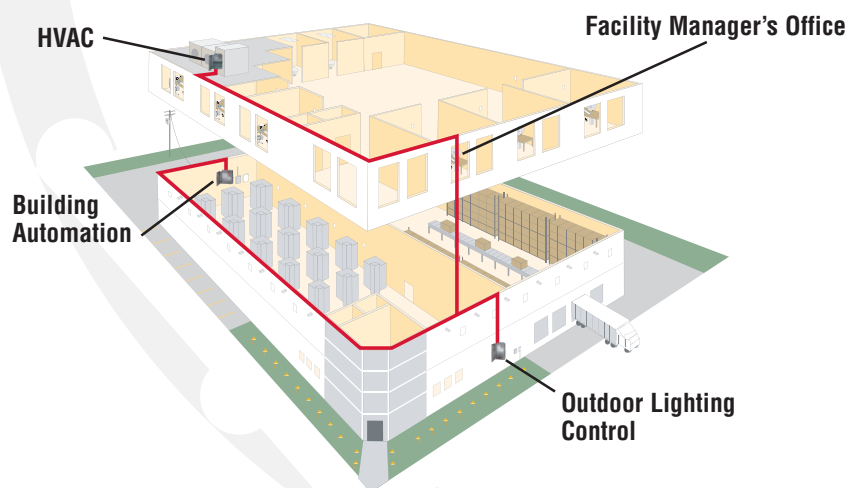
Unleash the Power of the Next Generation Time Switch!

The NextGen programming software written specifically for installing contractors and maintenance personnel is the fastest and easiest way to program the Intermatic Next Generation series of electronic time switches.

Features

- Programming of all current Next Generation models (1, 2, 4, 8, & 16 circuits)
- Easy point-n-click programming of holiday and daily event schedules
- File save function for archiving event schedules for future editing and use
- On-line help manual gives easy to follow directions
- One-button time and date programming synchronizes the time switch with your PC's date and time

Request Item# 300ET10018



Networking capabilities allow programming of the Next Generation time switches allowing facility managers to make schedule changes from across the building or campus through an intranet or even across country through the Internet.

NEXT GENERATION ACCESSORIES



ET7232M / ET7232M1

RS232 Serial Interface for all Next Generation Time switches. Also used as remote override for 1 & 2 circuit models.



156ET9402A

8-Circuit remote override input header. (Not Pictured)

156ET9403A

16-Circuit remote override input header.

LAN Connection to a PC

Office computers are typically connected through a local area networks (LANs) which provides an in-place backbone to allow control of Next Generation time switches from any linked PC. This applies to office buildings as well as distributed facilities such as university or corporate campuses.

NextGen Distributed Control

By linking distributed Next Generation time switches together with the facility manager's PC the time and associated cost of making periodic schedule changes is greatly reduced and all timing throughout the network can be synchronized to the second with the PC's internal clock.



Electronic Energy Controls Site Lighting Control Panels

SiteMaster Site Lighting Control Panels

These heavy duty lighting control panels are designed for harsh environmental and lighting load conditions. Features include; Pre-wiring for quick installation, heavy-duty NEMA 3R enclosures, mercury or "Ice Cube" relays, agency approved disconnect, 40, 80, 120 Amp design, locking hasps, and dead-front storage. Mechanical or electronic timing, lightning arrester, photo control, and stainless steel options.

SM2200 Series Specifications

Gasketless panel with two 20 Amp DPST Relays. Pre-wired with one 20 Amp double-pole Square D Homeline™ main breaker. 120 V output: one twin 20 Amp breaker & one single-pole 20 Amp breaker (for 240 V output- quad breaker with common trip on outside and inside). Capable of controlling 40 Amps @ 120 V and 20 Amps @ 240 V or 12- 400 Watt HID fixtures.

SM4400 Series Specifications

Gasketless panel with two 20 Amp DPST Relays. Pre-wired with one 40 Amp double-pole Square D Homeline™ main breaker. 120 V output: Six single-pole 20 Amp breakers (240 V output: three double-pole 20 Amp breakers). Capable of controlling 80 Amps @ 120 V and 40 Amps @ 240 V or 24- 400 Watt HID fixtures.

SM6600 Series Specifications

Gasketless panel with one 60 Amp DPST mercury relay. Split buss service- Upper buss. 120 V output: Pre-wired with one 60 Amp double-pole Square D Homeline™ main breaker and one-single pole 20 Amp breaker (240 V output: one 60 Amp double-pole and one 20 Amp double-pole breaker) Lower Buss - for load connections. Eight single-pole 20 Amp breakers (for 240 V output - four double-pole breakers). Capable of controlling 120 Amp @ 120 V and 60 Amps @ 240 V or 36- 400 Watt HID fixtures.

SM6240DOT & SM6277DOT Series Specifications

Gasketless 14 AWG stainless-steel panel with 3-point locking system. SM6240DOT: 60 Amp DPST mercury relay. Split buss service- Upper buss. 120 V output: Pre-wired with one 60 Amp double-pole Square D Homeline™ main breaker and one single-pole 20 Amp breaker. Lower Buss - for load connections: Four double-pole 20 Amp breakers. Capable of controlling 60 Amps @ 240 V or 36- 400 Watt HID fixtures. Pre-installed 15 Amp GFCI duplex convenience receptacle. SM6277DOT: 60 Amp 3PST mercury relay. Input power 480/277 V 3-Phase: Pre-wired with one 60 Amp 3-Phase main breaker and one single-phase 20 Amp breaker. Load Output: Six 20 Amp 277 V Single-Phase breakers. Capable of controlling 180 Amps @ 277 V or 54- 400 Watt HID fixtures.

Engineering Specification

Site Lighting Control Panel

The site lighting control panel shall incorporate agency approved disconnect means with lockout capability, branch circuit breakers for feeding connected lighting loads, electrically held contactor suitable for switching attached loads, and timing mechanism for control of said contactor. The control panel shall be pre-wired for installation convenience and reliability. The control panel shall be designed to accept a variety of timing mechanisms including mechanical and electronic. The control panel and all related components shall operate over a temperature range of -31°F (-35°C) to 130°F (54°C). The capacity of each branch circuit within the control panel shall be 20 amps minimum. The control panel shall be a lockable steel NEMA 3R enclosure. The control panel shall be INTERMATIC Model _____ (SM2200x-x 2-branch; 4,800 Watt HID) (SM4400x-x 6-branch; 9,600 Watt HID) (SM6600x-x 8-branch; 14,400 Watt HID) (SM6240DOT) (SM6277DOT).



Applications:

- Schools
- Offices
- Airports
- Stores
- Hotels
- Restaurants
- Factories
- Apartments
- Electrical Utilities
- Municipalities

For Controlling:

- Roadway Lighting
- Parking Structures
- Parking Lots
- Billboards
- Entertainment Venues
- Ball Fields
- Driving Ranges
- Parks
- Outdoor Area Lighting



C22.2-177
LR3730



-40°F
(-40°C)
to
130°F
(54°C)

Electronic Energy Controls Pre-Wired For Faster Installations

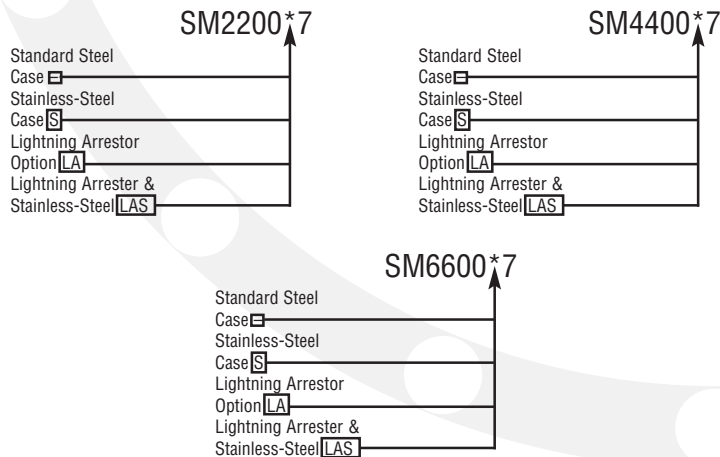


Model#	Time Switch/Description	# Outputs	Output VAC	Photo Control
SM2200*1	T103M Mechanical Time Switch	2	120 VAC	No
SM2200*2	T103M Mechanical Time Switch	2	120 VAC	Yes
SM2200*3	ET101CM Electronic Time Switch	2	120 VAC	No
SM2200*4	ET101CM Electronic Time Switch	2	120 VAC	Yes
SM2200*5	ET279C Electronic Time Switch	2	120 VAC	No
SM2200*6	ET279C Electronic Time Switch	2	120 VAC	Yes
SM2200*7	ET104CM Electronic Time Switch	1	240 VAC	No
SM2200*8	ET104CM Electronic Time Switch	1	240 VAC	Yes
SM2200*16	ET8215CM Astronomic Time Switch	2	120 VAC	No

Model#	Time Switch/Description	# Outputs	Output VAC	Photo Control
SM4400*1	T103M Mechanical Time Switch	4	120 VAC	No
SM4400*2	T103M Mechanical Time Switch	4	120 VAC	Yes
SM4400*3	ET101CM Electronic Time Switch	4	120 VAC	No
SM4400*4	ET101CM Electronic Time Switch	4	120 VAC	Yes
SM4400*5 ¹	ET279C Electronic Time Switch	4	120 VAC	No
SM4400*6 ¹	ET279C Electronic Time Switch	4	120 VAC	Yes
SM4400*7	ET70115C Electronic Astro Time Switch	4	120 VAC	No
SM4400*8 ¹	ET70215C Electronic Astro Time Switch	4	120 VAC	No
SM4400*9 ¹	ET70215C Electronic Astro Time Switch	4	120 VAC	Yes
SM4400*10	T104M Mechanical Time Switch	2	240 VAC	No
SM4400*11	T104M Mechanical Time Switch	2	240 VAC	Yes
SM4400*12	ET104CM Electronic Time Switch	2	240 VAC	No
SM4400*13	ET104CM Electronic Time Switch	2	240 VAC	Yes
SM4400*14 ¹	ET70215C Electronic Astro Time Switch	2	240 VAC	No
SM4400*16	ET8215CM Astronomic Time Switch	4	120 VAC	No

Model#	Time Switch/Description	# Outputs	Output VAC	Photo Control
SM6600*1	T103M Mechanical Time Switch	8	120 VAC	No
SM6600*2	T103M Mechanical Time Switch	8	120 VAC	Yes
SM6600*3	ET101CM Electronic Time Switch	8	120 VAC	No
SM6600*4	ET101CM Electronic Time Switch	8	120 VAC	Yes
SM6600*5	ET104CM Electronic Time Switch	4	240 VAC	No
SM6600*6	ET104CM Electronic Time Switch	4	240 VAC	Yes
SM6600*7 ¹	ET279CM Electronic Time Switch	8	120 VAC	No
SM6600*8 ¹	ET279CM Electronic Time Switch	8	120 VAC	Yes
SM6600*9	ET70115C Electronic Astro Time Switch	8	120 VAC	No
SM6600*10 ¹	ET70215C Electronic Astro Time Switch	8	120 VAC	No
SM6600*16	ET8215CM Astronomic Time Switch	8	120 VAC	No

¹Two independent circuits for bi-level or 2-sided control. Complies with California Title 24 requirements for multi-level outdoor lighting control



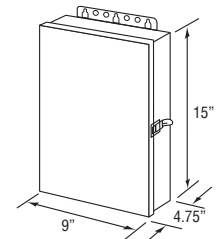
SITE LIGHTING PANEL TIME SWITCH OPTIONS

Mechanical, Electronic, & Astronomic Field
Changeable Mechanisms

Panel Dimensions



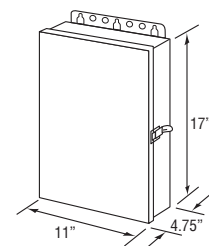
C22.2-177
LR3730



SM2200



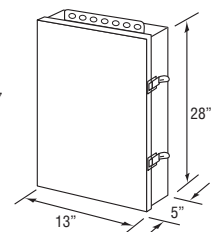
C22.2-177
LR3730



SM4400



C22.2-177
LR3730



SM6600



In-Wall Electrical Devices Spring Wound Auto-Off Timers



Applications:

- Indoor Lighting
- Outdoor Lighting
- Lighting Overrides
- Exhaust Fans
- Whole House Fans
- Ventilating Fans
- Tennis Court Lighting
- Pumps
- Air Conditioners
- Steam Rooms
- Bathroom Fans
- Whirlpools
- Porch Lights
- Broom Closets
- Carriage Lights
- Television Sets
- Self Storage Units
- Engine Block Heaters
- Process Controls



UL916
E76987



C22.2-177
LR3730



2.5 lbs
1.1 kg



-40°F
(-40°C)
to
155°F
(68°C)

FD Decorator Series Auto-Off Timers

These energy saving timers use no electricity to operate. These timers are designed to replace any standard wall switch, single or multi-gang, and automatically limit the "ON" time of fans, lights, motors, heaters and other energy consuming loads. Time limits of 5, 15, 30 and 60 minutes and 2, 4, 6 and 12 hours are available. The "hold feature" allows the user to override the automatic shut-off function for extended use of the load as required. Supplied with a molded white, ivory or almond time dial plate designed to fit either toggle or decorator style switch plates; single or multi-gang with no field modifications required to fit either style switch plate. Time saving "up front" terminal connection with teeter type terminals and an easy "press-on" knob design ensure quick and easy installation.

Specifications

Switch Rating –

Inductive: 20 Amp 125 VAC 50/60 Hz; 10 Amp 250 VAC 50/60 Hz; 10 Amp 277 VAC 50/60 Hz,

Tungsten: 7 Amp 125 VAC,

Motor: 1 HP 125 VAC 50/60 Hz; 2 HP 250 VAC 50/60Hz

Caution: Do not use for sunlamps, sauna, etc...

Colors – Available in White, Ivory, and Almond

Style – Decorator Styling - Can be used with decorator or toggle type switch plates.

Engineering Specification

Spring Wound Auto Shut-Off Timer (a.k.a. Interval Timer).

Provide and install as indicated a mechanical spring wound timer that requires no electricity to operate the timing mechanism. The timer shall be supplied with a threaded shaft. The timer must be able to fit a standard 2-1/2 inch deep wall box and accept a rectangular decorator wall plate, standard toggle switch plate or be capable of mounting easily in a panel board. Timer contacts shall break current at the end of timed cycle. Various timing ranges and switch contact arrangements shall be available up to 12 hours, with or without "HOLD" feature for constant ON. Timer shall be Intermatic Model FD _____ (Fill in for required time range, contact arrangement and color).

Time Cycle	IVORY		WHITE		ALMOND
	without hold	with hold	without hold	with hold	without hold only
SPST					
5 minute	FD5M	N/A	FD5MW	N/A	N/A
15 minute	FD15MC	FD15MH	FD15MWC	FD15MHW	FD15MAC
30 minute	FD30MC	FD30MH	FD30MWC	FD30MHW	FD30MAC
60 minute	FD60MC	FD60MH	FD60MWC	FD60MHW	FD60MAC
2 hour	FD2H	N/A	FD2HW	N/A	N/A
4 hour	FD4H	N/A	FD4HW	N/A	N/A
6 hour	FD6H	FD60HH	FD6HW	FD6HWH	N/A
12 hour	FD12HC	FD12HH	FD12HWC	FD12HWH	N/A
SPDT Can be used as a normally closed for "Reverse Action" applications					
2 hour	FD32H	N/A	FD32HW	N/A	N/A
4 hour	FD34H	N/A	FD34HW	N/A	N/A
6 hour	FD36H	N/A	FD36HW	N/A	N/A
12 hour	N/A	N/A	FD312HW	N/A	N/A
DPST					
15 minute	FD415M	N/A	N/A	N/A	N/A
30 minute	FD430M	N/A	FD430MW	N/A	N/A
60 minute	FD460M	N/A	FD460MW	N/A	N/A
6 hour	FD46H	N/A	FD46HW	N/A	N/A
12 hour	N/A	N/A	N/A	N/A	N/A

Decorator (FD) timers shipped with timer, color coordinated time dial and knob.

In-Wall Electrical Devices

Spring Wound Auto-Off Timers



FF Commercial Series Auto-Off Timers

These energy saving commercial timers use no electricity to operate. These timers are designed to replace any standard wall switch, single or multi-gang, and automatically limit the "ON" time of fans, lights, motors, heaters and other energy consuming loads. Time limits of 5, 15, 30 and 60 minutes and 2, 4, 6 and 12 hours are available. The "hold feature" allows the user to override the automatic shut-off function for extended use of the load as required. Rugged time-dial plate takes the abuse encountered in commercial environments. Time saving "up front" terminal connection with teeter type terminals and an easy "press-on" knob design ensure quick and easy installation.

Specifications

Switch Rating –

Inductive: 20 Amp 125 VAC 50/60 Hz; 10 Amp 250 VAC 50/60 Hz; 10 Amp 277 VAC 50/60 Hz,

Tungsten: 7 Amp 125 VAC,

Motor: 1 HP 125 VAC 50/60 Hz; 2 HP 250 VAC 50/60Hz

Caution: Do not use for sunlamps, sauna, etc...

Colors – Commercial "brush metal" look.

Style – New simulated metal finish meets NEC requirements.

Engineering Specification

Spring Wound Auto Shut-Off Timer (a.k.a. Interval Timer).

Provide and install as indicated a mechanical spring wound timer that requires no electricity to operate the timing mechanism. The timer shall be supplied with a threaded shaft. The timer must be able to fit a standard 2-1/2 inch deep wall box with commercial wall plate or be capable of mounting easily in a panel board. Timer contacts shall break current at the end of timed cycle. Various timing ranges and switch contact arrangements shall be available up to 12 hours, with or without "HOLD" feature for constant ON. Timer shall be Intermatic Model FF _____ (Fill in for required time range and contact arrangement).

Time Cycle	Without Hold	With Hold	Without Hold	With Hold
SPST		DPST		
5 Minute	FF5M	FF5MH	N/A	N/A
15 Minute	FF15MC	FF15MH	FF415M	N/A
30 Minute	FF30MC	FF30MH	FF430M	N/A
60 Minute	FF60MC	FF60MHC	FF460M	N/A
2 Hour	FF2H	N/A	N/A	N/A
4 Hour	FF4H	N/A	N/A	N/A
6 Hour	FF6H	FF6HH	FF46H	N/A
12 Hour	FF12HC	FF12HHC	FF412H	N/A
SPDT				
15 Minute	FF315M	N/A		
30 Minute	FF330M	N/A		
60 Minute	FF360M	N/A		
2 Hour	FF32H	FF32HH		
4 Hour	FF34H	FF34HH		
6 Hour	FF36H	N/A		
12 Hour	FF312H	FF312HH		



ASHRAE 90.1-1999 Section 9.2.1.2 Space Control

Each space enclosed by ceiling height partitions shall have at least one control device to independently control the general lighting within the space. Each control device shall be activated either manually by an occupant or automatically by sensing an occupant.

Each control device shall:

- control a maximum of 2,500 sq ft area for a space 10,000 sq ft or less and a maximum of 10,000 sq ft area for a space greater than 10,000 sq ft,
- be capable of overriding the shutoff control required in 9.2.1.1 for no more than four hours, and
- be readily accessible and located so the occupant can see the controlled lighting for a maximum of four hours.



In-Wall Electrical Devices

Electronic Auto-Off Timers

EI200 Series Decorator Electronic Auto-Off Timer

The EI200 series timers provide silent operation in time ranges from 30 minutes up to 12 hours. Four basic models available in three colors reduce the need to stock as many timers, freeing up shelf space and providing more specification flexibility. Replaces single-pole switches in a variety of applications.

Specifications

Switch – Single-pole

Switch Rating –

Resistive (heater): 15 Amp, 120 VAC 1800 Watts;

Tungsten (incandescent): 8.3 Amp, 120 VAC 1000 Watts;

Ballast (Fluorescent): 8 Amp, 120 VAC;

Motor: 1/4 H.P., 120 VAC;

Caution: Do not use for sunlamps, sauna, etc...

Colors – Available in White, Ivory, and Light Almond

Style – Decorator Styling.

Special Voltages and Cycles – 50 or 60 Hz.

Engineering Specification

Electronic Auto Shut-Off Timer (a.k.a. Interval Timer).

Provide and install as indicated an electronic timing mechanism. The timer shall be supplied with an LED display and single-button operation. The timer must be able to fit a standard wall box and accept a rectangular decorator wall plate. Timer contacts shall break current at the end of timed cycle. Timer shall be capable of single-pole operation. Various user selectable timing ranges shall be available up to 12 hours, with or without "HOLD" feature for constant ON. Timer shall be Intermatic Model _____ (For 5/10/15/30 Minute EI200 - Ivory, EI200W - White, EI200LA - Light Almond; For 10/20/30/60 Minute EI210 - Ivory, EI210W - White, EI210LA - Light Almond; For 1/2/4/8 Hour EI220 - Ivory, EI220W - White, EI220LA - Light Almond; For 2/4/8/12 Hour EI230 - Ivory, EI230W - White, EI230LA - Light Almond).

Model#	Time Range	Switch	Clock Voltage	Max Wattage	Color	HOLD
EI200	5/10/15/30 Minute	Single-Pole	120 VAC	1,800	Ivory	Yes
EI200W	5/10/15/30 Minute	Single-Pole	120 VAC	1,800	White	Yes
EI200LA	5/10/15/30 Minute	Single-Pole	120 VAC	1,800	Light Almond	Yes
EI205*	5/15/30/45/60 Minute	Single-Pole	120 VAC	1,800	Ivory	No
EI205W*	5/15/30/45/60 Minute	Single-Pole	120 VAC	1,800	White	No
EI205LA*	5/15/30/45/60 Minute	Single-Pole	120 VAC	1,800	Light Almond	No
EI210	10/20/30/60 Minute	Single-Pole	120 VAC	1,800	Ivory	Yes
EI210W	10/20/30/60 Minute	Single-Pole	120 VAC	1,800	White	Yes
EI210LA	10/20/30/60 Minute	Single-Pole	120 VAC	1,800	Light Almond	Yes
EI215**	15/30/60 Minute, 2/4Hour	Single-Pole	120 VAC	1,800	Ivory	No
EI215W**	15/30/60 Minute, 2/4Hour	Single-Pole	120 VAC	1,800	White	No
EI215LA**	15/30/60 Minute, 2/4Hour	Single-Pole	120 VAC	1,800	Light Almond	No
EI220	1/2/4/8 Hour	Single-Pole	120 VAC	1,800	Ivory	Yes
EI220W	1/2/4/8 Hour	Single-Pole	120 VAC	1,800	White	Yes
EI220LA	1/2/4/8 Hour	Single-Pole	120 VAC	1,800	Light Almond	Yes
EI230	2/4/8/12 Hour	Single-Pole	120 VAC	1,800	Ivory	Yes
EI230W	2/4/8/12 Hour	Single-Pole	120 VAC	1,800	White	Yes
EI230LA	2/4/8/12 Hour	Single-Pole	120 VAC	1,800	Light Almond	Yes

* Meets or exceeds CEC Title 24, ASHRAE 90.1 and IECC requirements for enclosed spaces.

** Meets or exceeds ASHRAE 90.1 Requirements for enclosed spaces.

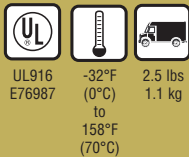


ASHRAE 90.1-1999 Section 9.2.1.2 Space Control

Each space enclosed by ceiling height partitions shall have at least one control device to independently control the general lighting within the space. Each control device shall be activated either manually by an occupant or automatically by sensing an occupant.

Each control device shall:

- control a maximum of 2,500 sq ft area for a space 10,000 sq ft or less and a maximum of 10,000 sq ft area for a space greater than 10,000 sq ft,
- be capable of overriding the shutoff control required in 9.2.1.1 for no more than four hours, and
- be readily accessible and located so the occupant can see the controlled lighting for a maximum of four hours.



In-Wall Electrical Devices

24-Hour Mechanical Time Switches



Compact Mechanical In-Wall Time Switches

These compact heavy-duty 24-hour timers can be used to turn on lights, fans, pumps and other heavy-duty loads for energy savings, security and convenience. Its compact, quiet, low profile design has easy to set tabs for precise 24-hour control. Models are available for single gang, 2-gang and dual timer applications. Easy set tabs provide for minimum on/off times of 20 minutes for up to 36 ON/OFF events daily. A manual ON or OFF override provides for permanent on or off override of loads at any time.

Three models; E1120 - a single timer model, E1220 - a single timer with a 2-gang switch plate for a toggle switch, and E1221 - a single timer with a 2-gang switch plate for a decorator switch. All four models include a white metal single or 2-gang switch plate as required. The toggle or decorator switch is not included with timers. Model E1221 with decorator switch plate can be wired to control a decorator style receptacle or GFCI receptacle to provide for "timed receptacle" control.

Specifications

Size – All models 1-1/4" (3.18 cm) Deep. Model E1120 - 4-1/2" (11.43 cm) H, 2-3/4" (6.99 cm) W; Models E1220, E1221 and E1222 - 4-1/2" (11.43 cm) H, 4-9/16" (11.59 cm) W.

Switch Rating – 120 Volt AC, 60 Hz, 15 Amps, 1875 Watts Resistive 1350 Watts Tungsten, 1/2 HP Motor Load, 8 Amp Inductive

Manual Control – Timers can be turned on and off manually for temporary or permanent control.

Color – White switch plate and trippers, black dial.

Model#	Plate Only	Switch	Volts /60Hz	Amps	Max Wattage	Min. On/Off Time	Max. On/Off Time
E1120	24EB5495	SPST	120	15	1875	20 mins.	23 hrs. 40 mins.
E1220	24EB5497	SPST	120	15	1875	20 mins.	23 hrs. 40 mins.
E1221	24EB5524	SPST	120	15	1875	20 mins.	23 hrs. 40 mins.

Heavy Duty In-Wall Time Switches

These heavy duty timers can be used to turn on lights, fans, pumps and other heavy duty loads for energy savings, security and convenience. The timer is designed to mount to any standard junction box for replacing a wall switch. Models are available in single ON / OFF or multiple ON / OFF type. Both models have an easy to use manual override.

Model E1010 equipped with a 24 hour dial divided in half-hour increments with a permanently attached "ON" and "OFF" tripper permitting single "ON / OFF" control every 24 hours. Model E1020 equipped with a multiple program dial. The dial accommodates 12 "ON" and 12 "OFF" trippers. Furnished with two "ON" and two "OFF" trippers. Both timers have three color code leads and require a hot, neutral and one side of the load.

Specifications

Size – 4-1/4" (10.8 cm) High, 3-1/4" (9.5 cm) Wide, 1-3/8" (3.5 cm) Deep.

Switch Rating – 120 VAC 60 Hz; 1440 Watts Tungsten; 12 Full load Amps.; 15 Amp max load.

Timing Cycle – Minimum "ON" time 1/2 hour, maximum "ON" time 22-1/2 hours; Minimum time between any two "ON" trippers (and any two "OFF" trippers) is 2 hours.

Model#	Switch	Volts	Amps	Max Wattage	Color
E1010	SPST	120	15	1800	Stonedust white housing
E1020	SPST	120	15	1800	Stonedust white housing

For additional trippers for E1020 (2 "ON" / 2 "OFF" per pack), order No. 156EB1945A.



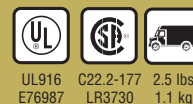
ASHRAE 90.1-1999 Section 9.2.1.1

Automatic Lighting Shutoff

Interior lighting in buildings larger than 5,000 sq. ft. shall be controlled with an automatic control device to shut off building lighting in all spaces.

This automatic control device shall function on either;

- (a) a time-of-day operated control device that turns lighting off at specific programmed times, and independent program schedule shall be provided for areas of no more than 25,000 sq ft but not more than one floor or
- (b) an occupant sensor that shall turn lighting off within 30 minutes of an occupant leaving a space or
- (c) by occupant intervention.

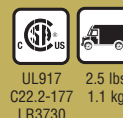


UL916 C22.2-177 2.5 lbs
E76987 LR3730 1.1 kg



Applications: For Controlling:

- Schools
- Offices
- Airports
- Stores
- Hotels
- Restaurants
- Parks
- Apartments
- Hall Lights
- Ceiling Lights
- Whole House Fans
- Paddle Fans
- Porch Lights
- Outdoor Lights
- Air Conditioners
- Coffee Makers
- Boilers
- Attic Fans
- Industrial Fans
- Automated Control



UL917 2.5 lbs
C22.2-177 1.1 kg
LR3730



In-Wall Electrical Devices

24-Hour Mechanical Time Switches



ASHRAE 90.1-1999

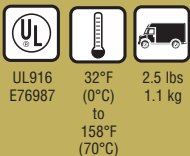
Section 9.2.1.1

Automatic Lighting Shutoff

Interior lighting in buildings larger than 5,000 sq ft shall be controlled with an automatic control device to shut off building lighting in all spaces.

This automatic control device shall function on either;

- (a) a time-of-day operated control device that turns lighting off at specific programmed times, and independent program schedule shall be provided for areas of no more than 25,000 sq ft but not more than one floor or
- (b) an occupant sensor that shall turn lighting off within 30 minutes of an occupant leaving a space or
- (c) by occupant intervention.



EI500 Series Decorator Digital 7-Day Time Switch

The EI500 series compact 7-day timers provides up to 7-ON and 7-OFF operations per week which can be used for 24-hour or 7-day load control of lights, fans, pumps, and other medium-duty loads for energy savings, security, and convenience. Its compact, quiet, low profile design is easy to program for to-the-minute 24-hour or 7-day control. In addition, the display continuously shows time of day, day of the week, timer load and the load status. Available in three colors white, ivory, and light almond. Replaces single-pole switches in a variety of applications.

Specifications

Switch – Single-pole

Switch Rating –

Resistive (heater): 15 Amp, 120 VAC 1800 Watts;

Tungsten (incandescent): 8.3 Amp, 120 VAC 1000 Watts;

Ballast (fluorescent): 8 Amp, 120 VAC;

Motor: 1/4 H.P., 120 VAC;

Caution: Do not use for sunlamps, sauna, etc...

Events – 7 ON & 7 OFF Events per Day.

Colors – Available in White, Ivory, and Light Almond

Style – Decorator Styling.

Special Voltages and Cycles – 50 or 60 Hz.

Engineering Specification

Electronic 7-Day Timer.

The timer switch shall be a solid state electronic control capable of permitting 7-ON and 7-OFF set points to be distributed through a 7-day time period. 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 backlit digital LCD readout to show day-of-week and time-of-day using 12 hour AM/PM indicator. The time switch shall provide a manual override control for both temporary or permanent override.

Time switch shall operate over a temperature range of 32°F (0°C) to 158°F (70°C). An internal rechargeable battery shall protect program information and time-of-day for a minimum of 36 hours. Switch configuration to be SPST with a UL listed rating of: 20 amp Resistive, 120 Volts AC, 50/60 Hz; 15 amps Resistive, 120 Volts AC, 50/60 Hz; 1/4 HP, 120 Volts AC, 50/60 Hz; 8.3 amps Tungsten, 120 Volts AC, 50/60 Hz; 10 amps Ballast, 120 Volts AC, 50/60 Hz. The timer must be able to fit a standard wall box and accept a rectangular decorator wall plate. Timer contacts shall make or break current according to user adjustable program. Timer shall be Intermatic Model _____ (Ivory - EI500, White - EI500W, Light Almond - EI500LA)

Model#	Switch	Clock Voltage	Max Wattage	Color
EI500C	Single-Pole	120 VAC 50/60 Hz	1,800	Ivory
EI500WC	Single-Pole	120 VAC 50/60 Hz	1,800	White
EI500LAC	Single-Pole	120 VAC 50/60 Hz	1,800	Light Almond

In-Wall Electronic Devices

7-Day Electronic Time Switch



EI600 Series Decorator Electronic 7-Day Astro Time Switch

This easy to program timer provides up to 40 ON/OFF operations per week which can be used for 24-hour or 7-day load control. The astronomical feature provides sunset ON and sunrise OFF settings and the auto daylight savings adjustment means you can "set-it and forget-it". 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. A factory supplied CR2 lithium battery provides up to three years of time keeping without AC power and user program selections are stored in non-volatile memory. A low battery indicator appears in the display when the battery requires replacement. In addition, the display continuously shows time of day, day of the week, timer load and the load status. The timer has an isolated single pole single throw switch which allows the timer to switch any load type, including PAR lamps and motor loads from 12 to 277 volts AC or 12 to 28 volts DC, within the specified ratings. A "3 wire" design allows the timer to replace, or be used as a single-pole or 3-way (multi-way) switch.

Specifications

Switch – Single-pole or 3-way (Multi-way) Compatible

Switch Rating –

Resistive (heater): 20 Amp, 120-277 VAC

Tungsten (incandescent): 15 Amp, 120 VAC; 6 Amp, 208-277 VAC

Ballast (fluorescent): 16 Amp, 120-277 VAC

Motor: 1 H.P., 120 VAC; 2 H.P., 240 VAC; 4 Amp, DC Loads:12 VDC; 2 Amp, 28 VDC

Caution: Do not use for sunlamps, sauna, etc...

Events – 40 ON/OFF Events per week.

Colors – Available in White, Ivory, and Light Almond

Style – Decorator Styling.

Special Voltages and Cycles – 50 or 60 Hz.

Warranty – 5 Years

Engineering Specification

Electronic 7-Day astronomic Timer.

The timer switch shall be a solid state electronic control capable of permitting 40 ON/OFF set points to be distributed through a 7-day time period with 1 astro ON and 1 astro OFF set point per day. 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 LCD readout to show day-of-week and time-of-day using 12 hour AM/PM indicator. The time switch shall provide a manual override control for both temporary or permanent override.

Time switch shall operate over a temperature range of 32°F (0°C) to 104°F (40°C). A lithium battery provides up to three years of time keeping without AC power and user program selections are stored in a non-volatile memory. Switch configuration to be SPST with a UL listed rating of: Resistive (heater): 20 Amp, 120-277 VAC; Tungsten (incandescent): 15 Amp, 120 VAC; 6 Amp, 208-277 VAC; Ballast (Fluorescent): 16 Amp, 120-277 VAC; Motor: 1 H.P., 120 VAC; 2 H.P., 240 VAC; 4 Amp, DC Loads: 12 VDC; 2 Amp, 28 VDC. The timer must be able to fit a standard wall box and accept a rectangular decorator wall plate. Timer contacts shall make or break current according to user adjustable program. Timer shall be Intermatic Model _____ (Ivory - EI600, White - EI600W, Light Almond - EI600LA)

Model#	Switch	Contact	Max Wattage	Color
EI600C	Single-Pole / 3-way	12 - 277 VAC; 12 - 28 VDC	1,800 - 4,155	Ivory
EI600WC	Single-Pole / 3-way	12 - 277 VAC; 12 - 28 VDC	1,800 - 4,155	White
EI600LAC	Single-Pole / 3-way	12 - 277 VAC; 12 - 28 VDC	1,800 - 4,155	Light Almond



Applications:

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

For Controlling:

- Indoor Lighting
- Outdoor Lighting
- Pumps & Fans
- HID Lighting
- Library Lights
- Classroom Lights
- Fluorescent Lighting
- PAR Lights
- Heaters
- Recreational Vehicles
- Air Conditioners
- Porch Lights
- Carriage Lights



UL917
C22.2-177
LR3730

32°F
(0°C)
to
158°F
(70°C)

2.5 lbs
1.1 kg



InTouch Wireless Controls™ Wireless Home Controls

INTERMATIC

InTouch™
WIRELESS CONTROLS

InTouch™ — The Centerpiece for Peaceful Living

Z-wave™ makes reliable wireless home control possible. Intermatic makes it a reality with the InTouch™ series of wireless controls. Until now home controls had only two options — reliable controls that were too expensive or low cost controls that were unreliable. That's all changed with Intermatic's InTouch wireless controls, which bring reliable controls together with low cost to deliver a home solution everyone can enjoy.

Named the Best New Emerging Technology by CNET at the 2006 Consumer Electronic Show, and recipient of the Electronic House Product of the Year Award, Z-wave is a breakthrough technology that enables products from many different manufacturers to seamlessly work together. This same technology lies at the center of Intermatic's InTouch home control system.

Several factors contribute to make Z-wave a breakthrough innovation. First is the "mesh" network, which basically means that every line-powered device within the network acts as a repeater to route signals among distant devices. Second is that Z-wave networks operate in the 900Mhz band, providing a penetrating signal to deliver reliable communications between devices. Another factor is that with more than 4 billion unique house codes, Z-wave provides a secure network with no fear of interference from neighboring systems. Finally, Z-wave has made the leap from theory to reality as more than 100 companies are working in the Z-wave Alliance to develop actual products that benefit homeowners today and in the near future.

What this means to homeowners, is they now have all of the convenience, comfort and safety of a reliable home control system without concerns of system reliability, product/ installation costs or compatibility between products.

The Intermatic InTouch system helps homeowners "set the scene" for entertaining, working or just relaxing after a long day. Homeowners can now manage and monitor lighting, security systems and other electronics easily, conveniently and securely from anywhere in the world. Functions such as indoor and outdoor lighting, entry access, pool & spa functions, home theater systems, window treatments and heating & cooling are a breeze with Intermatic's InTouch control system.



InTouch Wireless Controls™

Wireless Home Controls



Intermatic's InTouch system has taken Z-wave technology to an even higher level of functionality with the introduction of its patent pending InTouch server technology. The InTouch server provides full two-way, real-time status of every device in the network including legacy Z-wave devices. The InTouch server also makes a host of never before seen features available to the installer and homeowner including:

- Greater network range – doubling the number of “hops” a signal can take to get to its target from the Z-wave standard of 4 to 8
- In-field firmware upgrade capability – future-proofing an InTouch network from protocol changes
- System text and graphics messaging – allowing streaming information such as sports scores, stock quotes, weather and news alerts as well as personal and system status messages
- Centralized scene and status information – ability to remotely edit scenes from anywhere in the network
- Full Z-wave compatibility – adding an InTouch Server to any manufacturer's Z-wave product instantly upgrades their capabilities to share many of the InTouch features

Imagine arriving home from a long day's work and as you step inside, the temperature of the room is just right, the lighting level is relaxed and inviting, your audio system is playing your favorite song, the shades are being drawn for the evening and your spa is warm and bubbling.

At Intermatic, we call this living the InTouch lifestyle. Previous home controls systems capable of providing a similar level of service as InTouch were expensive, took weeks to install and didn't deliver the same functionality.

InTouch provides the safety, security and convenience homeowners are looking for while making it price-accessible for everyone. With an InTouch residential controls package from Intermatic, electrical contractors, designers, home builders and custom installers can provide homeowners with a robust and intelligent system for a fraction of the cost of current competitive systems. Best of all, the system can be expanded easily to grow with homeowners' changing needs. And since it's powered by Z-wave technology, InTouch is 100% compatible with the growing number of Z-wave enabled products.

InTouch products are backed by a 10-year warranty and more than 115 years of experience in the electrical industry. The controllers, switches and receptacles are designed to complement any décor and the intuitive controls are designed for minimal programming effort and maximum system functionality.

For the Professional installer:

- Earn back lost sales by offering customers an affordable, full-bodied system at a price that will shock them for being so affordable.
- Easy Installation equals less spent on time and labor. InTouch devices install with existing wiring and both network setup and system programming are quick and easy.
- Fewer SKUs means less inventory. Intermatic's growing line of InTouch products offer changeable faceplates and combination switches to keep the number of devices the distributor or installer needs to inventory to a minimum.
- Adaptability makes InTouch the perfect solution for new construction as well as retrofit applications.

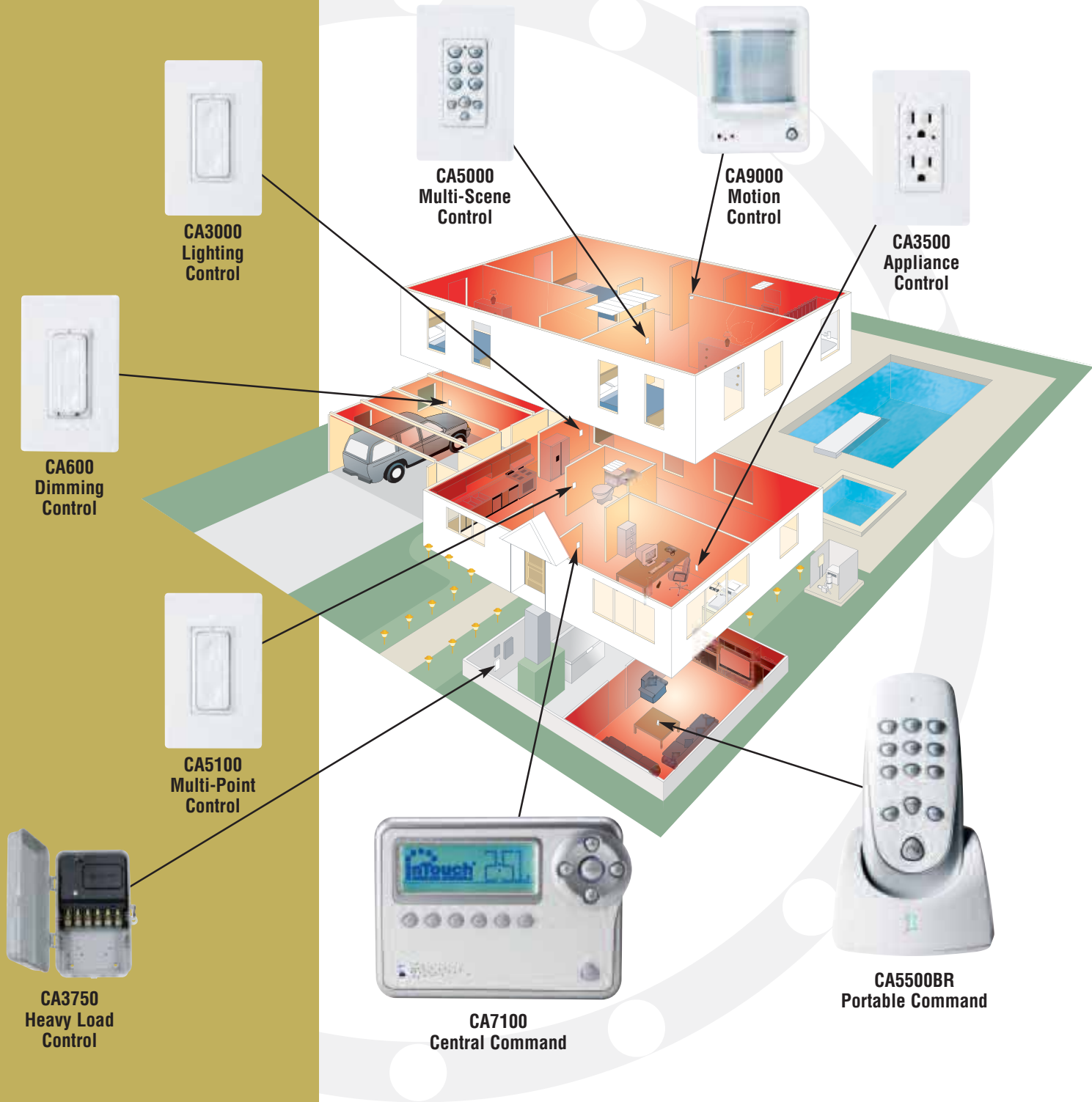
For the Homeowner:

- Advanced technology fosters a progressive lifestyle at a price anyone can afford.
- Home controls add value to the home, increasing prestige and resale values.
- Reliable and secure control network for consistent comfort, convenience and safety.
- Energy savings brought about by improved electrical management.
- Easily modified as your electronic needs change and grow.





InTouch™ Residential and Small Business Applications



InTouch™ Wireless Controls™

Wireless Home Controls



InTouch™ Product Line

CA7100

In-Wall Master Control

- Features include multiple scene functions, programming based on time, action or a combination of both, along with a full 2-way control system
- Built-in astro clock allows lights to go on at sunset and off at sunrise, never having to reset the timer
- Voltage: 120 volts 50/60 Hz
- Agency approval: FCC, CSA c/us

CA5500BR

Hand Held Remote with Smartbase

- Offers remote scene control, status feedback and a rechargeable nickel metal hydride battery
- The Smartbase also features network memory backup
- Agency approval: FCC

CA5000

Multi-Button Scene Controller

- Offers remote scene control and status feedback
- Includes three interchangeable faceplates
- Colors include White, Ivory and Light Almond
- Voltage: 120 volts 50/60 Hz
- Agency approval: FCC, CSA c/us

CA5100

Accessory Wall Controller

- Features include remote scene control, and mini-scenes
- Includes three interchangeable faceplates
- Colors include White, Ivory and Light Almond
- Voltage: 120 volts 50/60 Hz
- Agency approval: FCC, CSA c/us

CA9000

Wireless PIR Sensor

- Features remote scene control and adjustable time delay
- Requires three AA alkaline batteries
- Agency approval: FCC

CA600

Wall Dimmer Switch

- Offers local and remote scene control, ON/OFF/dim/bright features and LED feedback
- The 3-way option allows consumers to control lights from multiple locations, using standard switches, and the mini-scene function allows a light switch to also trigger a small scene of up to five additional devices
- Includes three interchangeable faceplates
- Colors include White, Ivory and Light Almond
- Voltage: 120 volts 50/60 Hz
- Rating: 600 W Tungsten
- Agency approval: FCC, CSA c/us

CA3000

Wall Switch

- Includes local and remote scene control, ON/OFF, 3-way option and mini-scenes
- Includes three interchangeable faceplates
- Colors include White, Ivory and Light Almond
- Voltage: 120 volts 50/60 Hz
- Rating: 1800 Watts 15A Tungsten; 1800 Watts 15A Resistive/Inductive; 1820VA 15A Ballast; 1/2HP Motor
- Agency approval: FCC, CSA c/us

CA3500

Split-Duplex Receptacle

- Features one controlled grounded receptacle and local control
- Includes three interchangeable faceplates
- Colors include White, Ivory and Light Almond
- Voltage: 125 volts 50/60 Hz
- Rating: 15 Amps General Purpose
- Agency approval: FCC, CSA c/us

CA3750

Contactormodule

- For large loads such as air conditioners, spas and heaters, the contactormodule features a local ON/OFF control and LED feedback
- Voltage: 120, 208, 240, 277 volts 50/60 Hz
- Rating: 6600 Watts 30 A Resistive; 5500VA 25 Amps Inductive; 5540 Watts 20 Amps @ 277VAC Ballast; 4400 Watts 20 Amps Tungsten; 3HP @ 220VAC Motor
- Agency approval: FCC, CSA c/us

CA7100



CA5500BR



CA600



CA5000



CA3000



CA5100



CA3500



CA9000



CA3750



Your Total Professional Solution

Whether you are looking to light a garden pathway or signs along the highway, Intermatic has a comprehensive line of professional lighting to suit your every need.

Intermatic recently introduced its line of High Intensity Discharge (HID) lighting to satisfy the growing demand for high quality industrial lighting. With the same high quality that you've come to expect from Intermatic controls, Intermatic HID lighting can withstand the harshest elements while providing constant and reliable operation. When married with Intermatic switches and other HID control features like time clocks and photo controls, Intermatic provides a total lighting solution from beginning to end.

Intermatic's Light Expressions™ series of low voltage lighting fixtures is a professional grade series of landscape lighting that blends superior styling with extreme durability. The Light Expressions™ line offers contractors and landscape designers a high-end family of landscape fixtures and transformers to dramatically enhance the appearance of the home, while adding safety and security. With Light Expressions™, one may highlight architecture, trees, sculpture, decks, paths and more.

PROFESSIONAL LIGHTING

Professional Grade Transformers

Light Expressions™



Intermatic® professional grade transformers are the most reliable low voltage transformers available. Manufactured by Intermatic Incorporated – recognized worldwide for high quality timers and system controls – these transformers are especially designed for trouble-free operation and long lasting durability. Ensure that all of your professional lighting installations operate trouble-free and provide long-lasting service by using only Intermatic® professional grade transformers.

“Your success can depend on it!”

Every professional grade transformer includes these important product features:

- Heavy gauge steel housings with rain-tight covers (Model AL60TW uses a high impact polymer construction)
- Complete ground shield protection for safe operation. Suitable for use with submersible luminaries or submersible pumps
- Suitable for use with submersible luminaries or submersible pumps
- Meets UL and cCSAus safety standards
- Automatic or resettable circuit breakers for overload protection, helps prevent damage to electrical components, caused by overheating

A. AL300TPWS

- Heavy-duty 16 ga. stainless steel case
- Built-in photo control option
- Manual ON/OFF switch
- Fully programmable timer
- One set of 300 watt terminal blocks
- Heavy-duty power cord
- 5 Year limited warranty
- Resettable circuit breaker
- Rain tight enclosure with lifetime limited warranty

B. AL600TPWS

- Heavy-duty 16 ga. stainless steel case
- Built-in photo control option
- Manual ON/OFF switch
- Fully programmable timer
- Two sets of 300 watt terminal blocks
- Heavy-duty power cord
- 5 year limited warranty
- Resettable circuit breaker
- Rain tight enclosure with lifetime limited warranty

C. AL900TPWS

- Heavy-duty 16 ga. stainless steel case
- Built-in photo control option
- Manual ON/OFF switch
- Fully programmable timer
- Three sets of 300 watt terminal blocks
- Heavy-duty power cord
- 5 year limited warranty
- Resettable circuit breaker
- Rain tight enclosure with lifetime limited warranty

D. AL300RTW

- Heavy-duty 18 ga. steel housing
- Manual ON/OFF switch
- Fully programmable timer
- One set of 300 watt terminal blocks
- Heavy-duty power cord
- 5 year limited warranty
- Automatic circuit breaker
- Rain tight enclosure

E. AL600TW

- Heavy-duty 18 ga. steel housing
- Manual ON/OFF switch
- Fully programmable timer
- Two sets of 300 watt terminal blocks
- Heavy-duty power cord
- 5 year limited warranty
- Automatic circuit breaker
- Rain tight enclosure

F. AL900TW

- Heavy-duty 18 ga. steel housing
- Manual ON/OFF switch
- Fully programmable timer
- Three sets of 300 watt terminal blocks
- Heavy-duty power cord
- 5 year limited warranty
- Automatic circuit breaker
- Rain tight enclosure



All Intermatic AL Transformers meet UL1838 Standards



Professional Grade Transformers

Light Expressions™

G



G. AL60TW

- High-impact polymer case
- Manual ON/OFF switch
- Fully programmable timer
- 2 sets of ON/OFF trippers
- Automatic circuit breaker
- Ground shield protection
- Heavy-duty power cord
- 5 year limited warranty
- Rain tight enclosure

H



H. AL300MTW

TRANSFORMER:

- 300VA (True Watts) multi-tap (12V, 13V, 15V)
- Heavy 18 ga. painted steel housing
- Resettable circuit breaker
- Heavy duty power cord code compliant for use with submersible luminaries
- Easy hook-up to color coded and labeled leads
- Conduit ready with knockouts
- 10 year limited warranty on transformer

INDEPENDENT DIGITAL SELF ADJUSTING INDOOR TIMER:

- Set it once, no re-setting required
- Automatically adjusts sunrise/sunset times
- Automatically adjusts for daylight savings time
- Battery back-up included
- Easy to read LCD display
- One year limited warranty on timer

I. AL600MTW

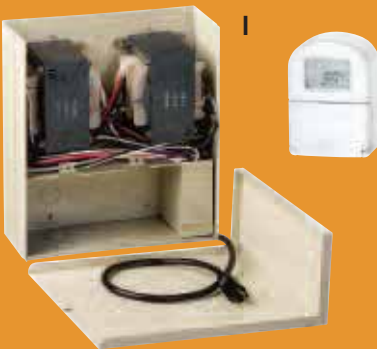
TRANSFORMER:

- 600VA (True Watts) multi-tap (12V, 13V, 15V)
- Heavy 18 ga. painted steel housing
- Resettable magnetic circuit breakers (2)
- Heavy duty power cord code compliant for use with submersible luminaries
- Easy hook-up to color coded and labeled leads
- Conduit ready with knockouts
- 10 year limited warranty on transformer

INDEPENDENT DIGITAL SELF ADJUSTING INDOOR TIMER:

- Set it once, no re-setting required
- Automatically adjusts sunrise/sunset Times
- Automatically adjusts for daylight savings time
- Battery back-up included
- Easy to read LCD display
- One year limited warranty on timer

I



J. AL300BW

- High-impact PVC case
- Water tight enclosure, can be buried to ground level
- Can be controlled externally
- Three 1.5" I.D. knockouts for line voltage conduit
- Automatic circuit breaker
- Ground shield protection for safe operation
- 5 year limited warranty

J



All Intermatic AL Transformers meet UL1838 Standards

Professional Landscape Lighting

Light Expressions™



Our Professional Grade Lighting line includes a wide range of weatherproof transformers, low voltage fixtures, specialty insulated cables and a variety of accessories. Intermatic offers an expanded selection of fixtures designed for easy installation. All have the most advanced features that result from our many years of experience in low voltage lighting.



AL111
Well Light with 14W Poly-Star bulb



AL115
Submersible Light with 20W halogen MR16 bulb



AL375V
Metal Light with 18W wedge base bulb and Verde finish



AL380C
Copper Light with 18W wedge base bulb



Accessories



AL385V
Brass Light with 18W wedge base bulb and Verde Patina finish



AL395
Brass Light with 18W wedge base bulb and Aged Brass finish



AL395V
Brass Light with 18W wedge base bulb and Verde Patina finish



AL401
Metal Floodlight with 35W MR16 bulb and Black finish



AL402
Metal Floodlight with 50W PAR36 bulb and Black finish



AL402TA
Metal Floodlight with 50W PAR36 bulb and Textured Architectural Bronze finish



AL403
Metal Floodlight with 35W Halogen MR16 bulb and Black finish



AL403TA
Metal Floodlight with 35W Halogen MR16 bulb and Textured Architectural Bronze finish

Low Voltage Cable



- AL10210**
10/2 100 ft.
- AL102-5C**
10/2 500 ft.
- AL12210**
12/2 100 ft.
- AL122-5C**
12/2 500 ft.



AL8-12
Designed specifically for weatherproof, outdoor, hard-wire installations



AL1160
Fixture Ground Stake, 1/2" Female Thread, Heavy Duty Plastic



Professional Landscape Lighting

Light Expressions™



AL405
Brass Light with 18W
wedge base bulb and
Aged Brass finish

AL405V
Brass Light with 18W
wedge base bulb and
Verde Patina finish

AL406
Metal Deck Light with
8W bayonet bulb and
Black finish

AL406TA
Metal Deck Light with
8W bayonet bulb and
Textured Architectural
Bronze finish



AL407TA
Metal Cone Walk
Light with 18W
wedge base bulb and
Textured Architectural
Bronze finish

AL408TA
Metal Dome Walk
Light with 18W
wedge base bulb and
Textured Architectural
Bronze finish

AL409
Metal Bollard Light
with 50W MR16 bulb
and Black finish

AL409TA
Metal Bollard Light
with 50W MR16 bulb
and Textured
Architectural Bronze
finish



AL425C
Copper Ellipse Light
with 18W wedge base
bulb

AL501
Mini Floodlight with
35W halogen MR16
bulb and Black finish

AL502
Large Floodlight with
50W PAR36 bulb and
Black finish

AL502DS
Large Floodlight with
50W PAR36 bulb and
Dark Sand finish

Professional Landscape Lighting

Light Expressions™



AL502TA
Large Floodlight with 50W PAR36 bulb and Architectural Bronze finish



AL506
Metal Floodlight with 35W halogen MR16 bulb and Black finish



AL508V
Large Path Light with 18W wedge base bulb and Verde finish



AL510V
Large Brass Floodlight with 50W PAR36 bulb and Verde finish



AL521
Cast Metal Acorn Style Path Light with 35W halogen MR16 bulb and Black finish



AL550
3 Tier Path Light with 18W wedge base bulb and Black finish



AL550DS
3 Tier Path Light with 18W wedge base bulb and Dark Sand finish



AL550TA
3 Tier Path Light with 18W wedge base bulb and Architectural Bronze finish





High Intensity Discharge (HID) Lighting

Intermatic's line of HID lighting is the perfect solution for a wide variety of outdoor lighting needs. In addition, Intermatic has a full array of controls and sensors designed to complement any residential, commercial or industrial lighting system.

Wall Packs

Ideal for: Parking Areas, Entrances, Walkways, Underpasses, Loading Docks, Recreation Areas and Tunnels.

- UL listed for wet locations
- Corrosion-resistant hardware
- Heavy duty die-cast aluminum powder coating construction
- 1/2" tapped holes available for installing photocell (photocell optional)



**WL050MH
WL070MH
WL100MH**



**WL035HPS
WL050HPS
WL070HPS
WL100HPS**



**WL150MH
WL175MH**



WL150HPS



WL250MH



WL250HPS



WL400MH



WL400HPS

Part Number	Wattage	Lamp	Voltage	Finish	Lens
WL035HPS	35W	High Pressure Sodium	120V	Bronze	Polycarbonate
WL050HPS	50W	High Pressure Sodium	120V	Bronze	Polycarbonate
WL050MH	50W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Polycarbonate
WL070HPS	70W	High Pressure Sodium	120/208/240/277V Quad Tap	Bronze	Polycarbonate
WL070MH	70W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Polycarbonate
WL100HPS	100W	High Pressure Sodium	120/208/240/277V Quad Tap	Bronze	Glass
WL100MH	100W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass
WL150HPS	150W	High Pressure Sodium	120/208/240/277V Quad Tap	Bronze	Glass
WL150MH	150W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass
WL175MH	175W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass
WL250HPS	250W	High Pressure Sodium	120/208/240/277V Quad Tap	Bronze	Glass
WL250MH	250W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass
WL400HPS	400W	High Pressure Sodium	120/208/240/277V Quad Tap	Bronze	Glass
WL400MH	400W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass



High Intensity Discharge (HID) Lighting



Floodlights

Ideal for: Buildings, Backyards, Highway Signs, Outdoor Advertising Boards, Parks and Sports Fields

- UL and CUL listed for wet locations
- Heavy duty die-cast aluminum powder coating construction
- Corrosion-resistant hardware
- High impact-resistant tempered glass
- Lamp holder E-26, UL approved
- Multi-tap ballast: 120/208/240/277 Volts

Part Number	Wattage	Lamp	Voltage	Finish	Lens
FL035HPS	35W	High Pressure Sodium	120V	Bronze	Glass
FL050HPS	50W	High Pressure Sodium	120V	Bronze	Glass
FL070HPS	70W	High Pressure Sodium	120V	Bronze	Glass

FL050MH	50W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass
FL070MH	70W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass
FL100HPS	100W	High Pressure Sodium	120/208/240/277V Quad Tap	Bronze	Glass
FL100MH	100W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass

FL150HPS	150W	High Pressure Sodium	120/208/240/277V Quad Tap	Bronze	Glass
FL150MH	150W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass
FL175MH	175W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass

FL250HPS	250W	High Pressure Sodium	120/208/240/277V Quad Tap	Bronze	Glass
FL250MH	250W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass
FL400HPS	400W	High Pressure Sodium	120/208/240/277V Quad Tap	Bronze	Glass
FL400MH	400W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass

Dusk-to-Dawn Lights

Ideal for: Perimeter and Security Lighting, Loading Platforms, Barnyards, Parking Lots, Rural Homes, Public Entrances and OFF-Street Parking

- UL listed for wet locations
- Precision die-cast aluminum housing with natural finish
- UV-stabilized PS Lens
- 24" arm
- Dusk-to-dawn with twist-lock photo control
- Mounting hardware included
- Lamp holder E-39, 4KV and UL approved
- 120 Volt fixture

Part Number	Wattage	Lamp	Voltage	Lens	Arm
DD150HPS	150W	High Pressure Sodium	120V	Polycarbonate	24"
DD175MV	175W	Mercury Vapor	120V	Polycarbonate	24"



FL035HPS
FL050HPS
FL070HPS



FL050MH
FL070MH
FL100MH



FL100HPS



FL150MH
FL175MH



FL150HPS



FL250MH
FL400MH



FL250HPS
FL400HPS



DD175MV



DD150HPS



High Intensity Discharge (HID) Lighting

FL150Q



FL300Q
FL500Q



CP150HPS



WL070HPSPC



Quartz Floodlights

Ideal for: Building Facades, Signs, Sports Fields and Emergency and Temporary Floodlighting

- UL and CUL listed for wet locations
- Die-cast aluminum construction
- Tempered door glass
- Hinged front door
- 1/2" threaded swivel mount
- Dark bronze finish
- 120 Volt fixture

Part Number	Wattage	Lamp	Voltage	Finish	Lens
FL150Q	150W	Quartz Halogen	120V	Bronze	Glass
FL300Q	300W	Quartz Halogen	120V	Bronze	Glass
FL500Q	500W	Quartz Halogen	120V	Bronze	Glass

Canopy Lights

Ideal for: Parking Areas, Entrances, Walkways, Underpasses, Loading Docks and Recreation Areas

- UL listed for wet locations
- Heavy duty die-cast aluminum powder coating construction
- High impact polycarbonate lens
- Corrosion-resistant hardware
- 1/2" tapped holes available for installing photocell (photocell optional)
- multi tap ballast: 120/208/240/277 Volts

Part Number	Wattage	Lamp	Voltage	Finish	Lens
CP150HPS	150W	High Pressure Sodium	120/208/240/277V Quad Tap	Bronze	Polycarbonate

Wall Fixture with Photocell

Ideal for: Parking Areas, Entrances, Walkways, Underpasses, Loading Docks and Recreation Areas

- UL listed for wet locations
- High-impact polycarbonate lens and housing
- Aluminum baseplate with conduit access
- Corrosion-resistant hardware
- 120 Volt installed photocell included
- Multi-tap ballast: 120 Volt fixture

Part Number	Wattage	Lamp	Voltage	Finish	Lens
WL070HPSPC	70W	High Pressure Sodium	120V	Bronze	Polycarbonate



Helping Maintain the Luxuries of Life

Few things exceed the pleasure of a refreshing dip in the pool on a hot summer day or a relaxing soak in the hot tub on a chilly evening. Intermatic helps maintain these luxuries with a variety of reliable controls, which combine economy and flexibility in a single enclosure.

Too often, as technology advances, controlling that technology becomes exceedingly complex. Intermatic has made a commitment to provide its customers with controls that are as easy to install as they are to use. While maintaining its reputation for reliability, Intermatic designs innovative pool and spa controls that are powerful and intuitive.

Providing simple, focused controls allows the consumer to purchase only the features they need for their application – saving money and easing frustration. Intermatic's products are flexible and designed to work together cohesively in an endless number of scenarios. Intermatic controls reduce installation costs and maintain consistent performance for aeration, freeze protection, lighting and pumping year after year.

POOL & SPA



Digital Wireless Controls



PE950



PE650



PE40000 Series I-Wave Wireless Pool/Spa Control

Intermatic's wireless pool and spa controls utilize ground-breaking Z-wave™ technology. While some controls communicate transmission problems, Intermatic's wireless devices allow total and uninterrupted communication between the controller and the equipment.

Intermatic's modular approach provides for added diversity and convenience. Modules are capable of working independently or within a system. Portions can be added or replaced without interfering with the original system, and each system can be designed to incorporate as many or as few features as needed to accomplish the task at hand – making Intermatic the most value added and cost-effective choice.

All I-Wave Models include wireless transmitter and transceiver, two PE24VA valve actuators, five total circuits (three timed and two on demand), two-speed control, water temperature display, heater temperature control, fireman switch, freeze protection and 125 Amp breaker base.

Applications

- Pool/Spa combinations
- Water features
- Fountains

Specifications

Case — 26.0" (66.3 cm) high x 18.0" (45.9 cm) wide x 5.5" (14.0 cm) deep, 0.048" steel with electrostatically applied light beige finish.

Knockouts: Two combination 3/4"–1"–1-1/4" and eleven combination 1/2"–3/4" knockouts on the bottom. Two 3/4"–1" combination and four combination 1/2"–3/4" knockouts on the back. Low voltage compartment has two combination 1/2"–3/4" knockouts and one 3/4" hole with a shutter bushing installed. Two combination 3/4"–1" and one combination 1/2"–3/4" knockouts. One 1-3/4" x 2-3/4" knockout on the right side.

Switch Rating: P1353ME – see page 70; P4243ME – see page 71

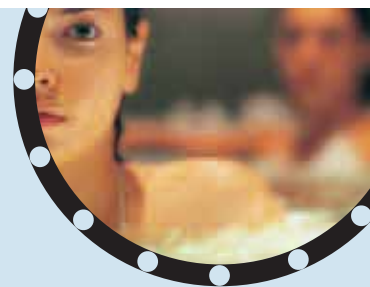
Model	Mechanisms	Switch	Transformer	Volts 60Hz	Shipping Weight
PE45343RC	P1353ME and P4243ME	5 - SPST	None	120 or 208-240	44.0 lbs.
PE45343RCT1	P1353ME and P4243ME	5 - SPST	100 Watt	120 or 208-240	51.0 lbs
PE45343RCT3	P1353ME and P4243ME	5 - SPST	300 Watt	120 or 208-240	56.0 lbs
PE650	Wireless Receiver	–	–	–	5.5 lbs
PE950	Wireless Transmitter	–	–	–	5.5 lbs

Complete System



PE45343RC

Salt Chlorine Generators



PE25 & PE40 Series

I-Pure Stand Alone Salt Chlorine Generator

While traditional Salt Chlorine Generators can be difficult to manage and operate, the new I-Pure Salt Chlorine Generator takes the hassle out of sanitizing pools and spas. The I-Pure system produces more chlorine than other Salt Chlorine Generators and provides homeowners with easy-to-use, high quality sanitation at a competitive price.

Designed for pools up to 25,000 gallons or 40,000 gallons, the I-Pure Stand Alone Salt Generator's self-adjustable control dial allows users to increase or decrease chlorine production with ease. The simplified controls of the I-Pure deliver easy pool maintenance.

Applications

- Residential Pools
- Commercial Pools
- Water Features
- Fountains

Specifications

Case — 15.0" (38.3 cm) high x 10.5" (26.8 cm) wide x 4.5" (11.4 cm) deep.

Voltage: 120VAC or 240VAC (See Below)

Shipping Weight: See Chart

Agency Approval: ARL

Checklist for proper operation:

Salt	3000 to 4000 ppm
Free Chlorine	1 to 3 ppm
PH	7.2 to 7.8
Total Alkalinity	80 to 180 - adjust per calcium hardness level
Stabilizer (Cyanuric Acid)	60 - 80
Nitrates	0 ppm
Metals	0 ppm
Phosphates	0 ppm
Calcium Hardness	Determine level for individual pool surface
Saturation Index	-0.3 to 0.3 (0 is ideal)

Model	Max Gallons	Volts 60 Hz	Shipping Weight
PE25K120V	25,000	120	22.0 lbs (9.9 kg)
PE25K240V	25,000	208-240	22.0 lbs (9.9 kg)
PE40K120V	40,000	120	22.0 lbs (9.9 kg)
PE40K240V	40,000	208-240	22.0 lbs (9.9 kg)

I-Pure Demo Kits

PEDCHLR - Empty I-Pure shell only

PEDCELL - Empty I-Pure cell only

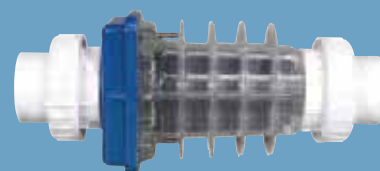


PE40K240V



Cell Features

The I-Pure system utilizes plates that are specially coated to convert regular table salt into natural chlorine. The system uses the most advanced self-cleaning technologies, including reversed polarity, which allows the Cell to stay cleaner and last longer than other self-cleaning cells. The clear Cell also allows for easy regular inspections for calcium build-up.



PE25KCELL

Replacement 25,000 gallon cell only

PE40KCELL

Replacement 40,000 gallon cell only



Digital Control Mechanisms



P1353ME



133PE1484A



178PA28A



P1353ME Digital Pool/Spa Mechanism

Designed as part of the I-Wave system and for aftermarket and retro-fit applications, the P1353ME has the ability to program three circuits and snap into almost any Intermatic enclosure. Five pre-programmed modes of operation include single speed pump or two-speed pump and booster/cleaner pump combinations. In addition, programmed modes that include auxiliaries can control pumps up to 3HP as well as underwater, garden and/or fountain lighting. Countdown and Override features allow cycle interruptions when pool/spa service is required. All timing and protection associated with filter pump/cleaner pump combinations and two speed pumps has already been integrated into the software.

Applications

- Single Speed Pump Combos
- Two-Speed Pump/Booster Pump Combos
- Pool & Spa Lighting
- Water Feature Applications
- Garden & Fountain Lighting
- Landscape Lighting

Key Features Include

- Memory Back-Up
- Heater Protection (Fireman Switch)
- Three On/Off Events per Day per Circuit
- Wired Remote – 133PE1484A (optional)
- 120V or 240V Input
- LCD Display
- Freeze Protection Probe – 178PA28A (optional)

Mode 1 – (Aux1, Aux2, Aux3)

The time switch is a 3-circuit switch with all three switches controlling auxiliary devices.

Mode 2 – (Pump High, Pump Low, Aux3)

The time switch is a 2-circuit switch with the 1st & 2nd switch controlling a two-speed pump. The 3rd switch is controlling any auxiliary device. All protection associated with a two speed pump is preprogrammed into this mode.

Mode 3 – (Pump, Aux2, Cleaner Pump)

The time switch is a 3-circuit switch with the 1st switch controlling a single speed pump, the 2nd switch controls any auxiliary device, and the 3rd switch operates a booster/cleaner pump. All timing & protection associated with a filter pump/cleaner pump combination is preprogrammed into this mode.

Mode 4 – (PumpHigh, PumpLow, Cleaner Pump)

The time switch is a 2-circuit switch with the 1st & 2nd switch controlling a 2-speed pump. The 3rd switch is controlling a booster/cleaner pump. All protection associated with a 2-speed pump and booster/cleaner pump combination is preprogrammed into this mode.

Mode 5 – (Pump L1, Pump L2, Aux3)

The time switch is a 2-circuit switch with the 1st & 2nd switch controlling a 240V pump, where both L1 & L2 are required to be disconnected when the pump is OFF. The 3rd switch is controlling any auxiliary device.

Specifications

Input Voltage – 120 Volt or 208-240 Volt, 50/60 Hz.

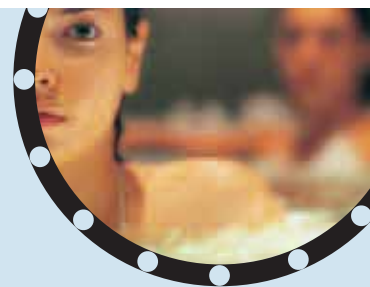
Number of Circuits – Up to three SPST 3HP circuits.

Switch Rating (each circuit) – 20 Amp Resistive, 120/240 VAC, 50/60 Hz; 20 Amp FLA @ 120 VAC, 96 Amp LRA @ 120 VAC, 50/60 Hz; 17 Amp FLA @ 240 VAC, 80 Amp LRA @ 240 VAC, 50/60 Hz; 5 Amp Tungsten, 120/240 VAC, 50/60 Hz; 5 Amp Ballast, 120/240V VAC, 50/60 Hz

Shipping Weight – 3.0lbs. (1.4 kg.)

Note: The P1353ME will not retro-fit into any enclosure that uses stand off posts to attach the mechanism.

Digital Control Mechanisms



P4243ME Pump/Valve Actuator Mechanism

Designed as part of the I-Wave system, this electronic control mechanism, especially designed for pool/spa combinations, will snap into most Intermatic panels and enclosures in use today. Designed as a very versatile, user-friendly device, it can be combined with a number of different Intermatic controls in order to facilitate a variety of custom applications. This mechanism can handle two motor loads, up to 3 HP, switch up to 3 valve actuators, the heater thermostats and also allow the user to select pool and spa heater operation.

The control options are numerous. For example, the Pool-to-Spa operation can be activated three different ways. By a remote installed count down timer, a radio receiver or a simple toggle switch. In the pool mode, any new or existing timer or manual switch may be used to control the filter pump operation. In the Spa mode, the filter pump and an additional piece of equipment can be controlled by a wired remote on the spa side (133PE1484A), by wireless remote, or by the buttons provided on the face of the mechanism.

If combined with the P1353ME Digital Pool/Spa mechanism, the two units can handle all the equipment variations of a pool/spa combination, including two-speed filter pump, cleaner pump, up to three 24 volt valve actuators, two stage protected heater, jet pump, blower and lights.

Applications

- Pool/Spa Combinations
- Blower
- Pool & Spa Lighting
- Water Feature
- Filter Pump
- Jets
- Landscape Lighting

Specifications

Input Voltage – 120 Volt or 208-240 Volt, 50/60 Hz.

Switch Rating (each circuit) – 17 Amp resistive 120-240V, 10 Amp Tungsten – 120V, 1.5 HP – 120V, 3 HP – 240V, 60Hz

Number of Circuits – Up to two DPST 3HP circuits

Shipping Weight – 5 lbs (2.2 kg)



P4243ME



133PE1484A



PE100 Series Mini PE Series Digital Pool or Spa Controls

Intermatic's Mini-PE Series Digital Controls couple the standard features of our compact T100 Series mechanical time switches with the convenience of digital automation. One of Intermatic's latest innovations, the P1353ME allows the ability to program up to three circuits. Beyond single and two-speed pump/booster pump applications, auxiliary modes can control pumps up to 3HP as well as underwater, garden and/or fountain lighting.

Countdown and override features allow cycle interruptions when pool/spa service is required. All timing and protection associated with filter pump/booster pump combos and two-speed pumps has already been integrated into the digital software. The Mini-PE Series is available in both metal and plastic enclosures and with a wired remote command, freeze probe or both. See chart below for details.

Intermatic makes it simple to convert your Mini-PE Series Digital Control into a Wireless Control System. Simply install a Panel Mounted Transceiver (RC650) and Hand-Held Transceiver (PE950) to any Mini-PE Series control, which allows the system to display the status of each of the three circuits as well as pool or spa water temperature, pool or spa thermostat set point, heating status and overall communication status.

Applications

- Single Speed Pump/Booster Pump Combos
- Two-Speed Pump/Booster Pump Combos
- Water Feature Applications
- Garden & Fountain Applications
- Pool & Spa Lighting
- Landscape Lighting

Specifications

Case – NEMA 3R rated for indoor-outdoor installation. 9-3/8" (23.8 cm) high, 5-1/2" (14.0 cm) wide, 3-5/8" (9.2 cm) deep in beige finish. "P" suffix models are same dimensions, except made from outdoor grade plastic.

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

Switch Rating (each circuit) – 20 Amp Resistive, 120/240 VAC, 50/60 Hz; 20 Amp FLA @ 120 VAC, 96 Amp LRA @ 120 VAC, 50/60 Hz; 17 Amp FLA @ 240 VAC, 80 Amp LRA @ 240 VAC, 50/60 Hz; 5 Amp Tungsten, 120/240 VAC, 50/60 Hz; 5 Amp Ballast, 120/240V VAC, 50/60 Hz

Shipping Weight – 3.7 lbs (1.7 kg)

Agency Approval – CSA/C-US

Model #	Description	Switch	Clock Supply
PE153	Digital Time Clock in Metal Enclosure	3 - SPST	120 or 240V
PE153W	Digital Time Clock in Metal Enclosure with 100' Wired Remote Command	3 - SPST	120 or 240V
PE153F	Digital Time Clock in Metal Enclosure with Freeze Protection Probe	3 - SPST	120 or 240V
PE153WF	Digital Time Clock in Metal Enclosure with 100' Wired Remote Command & Freeze Protection Probe	3 - SPST	120 or 240V
PE153P	Digital Time Clock in Plastic Enclosure	3 - SPST	120 or 240V
PE153PW	Digital Time Clock in Plastic Enclosure with 100' Wired Remote Command	3 - SPST	120 or 240V
PE153PF	Digital Time Clock in Plastic Enclosure with Freeze Protection Probe	3 - SPST	120 or 240V
PE153PWF	Digital Time Clock in Plastic Enclosure with 100' Wired Remote Command & Freeze Protection Probe	3 - SPST	120 or 240V

NOTE: See page 68 for PE650 and PE950 specifications and page 70 for P1353ME specifications



PE153



PE153W



PE153F



PE153WF

Digital Controls



PE Series Digital Controls



For pool, spa or water feature applications, the PE Series Digital Controls includes one P1353ME mechanism that controls a total of three timed circuits, including single-speed or two-speed filter pumps, cleaner/booster pumps, pool lights, spa lights and landscape lights.

Intermatic makes it simple to convert your PE Series Digital Control into a Wireless Control System. Simply install a Panel Mounted Transceiver (RC650) and a Hand-Held Transceiver (PE950).

Applications

- Single Speed Pump/Booster Pump Combos
- Two-Speed Pump/Booster Pump Combos
- Pool & Spa Lighting
- Water Feature Applications
- Garden & Fountain Applications
- Landscape Lighting

PE25300

Case – 16-1/2" (41.9 cm) high x 10-7/8" (27.6 cm) wide x 4-1/4" (10.8 cm) deep, 0.048" steel with electrostatically applied light beige finish.

Knockouts – One 1.09 diameter through hole, six combination 1/2"-3/4" knockouts, and three combination 3/4"-1" knockouts on the bottom. Two combination 1/2"-3/4" on the left side and one combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI.

Panel Rating – 60 Amp 120/240 V.A.C or 120/208 VAC single phase

Switch Rating – P1353ME - See page 70

Agency Approval – CSA/C-US

PE35300

Case – 22" (55.9 cm) high x 14-3/4" (37.5 cm) wide x 4-1/4" (10.8 cm) deep, 0.048" steel with light beige finish.

Knockouts – One 1.09 diameter through hole, six combination 1/2"-3/4" knockouts, 2 combination 3/4", 1", 1-1/4" knockouts, four 1/2" knockouts on the bottom. Two combination 1/2"-3/4" knockouts on the left side and four combination 1/2"-3/4" knockouts, two combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI.

Panel Rating – 80 Amp 120/240 VAC or 120/208 VAC single phase

Switch Rating – P1353ME - See page 70

Agency Approval – CSA/C-US

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
PE25300	P1353ME	3-SPST	120 or 240	14.0 lbs (6.3 kg)
PE35300	P1353ME	3-SPST	120 or 240	19.0 lbs (8.6 kg)



PE25300



PE35300

PE1500RC Series

Mini-Wave Wireless Pool/Spa Control Panels

For pool/spa combinations or pool/water feature combinations, the PE1541RC controls four circuits, two PE24VA valve actuators, Wireless Panel Mounted Transceiver (PE650) and Hand-Held Transceiver (PE950), which allows the system to display the status of each of the four on-demand circuits, pool and spa water temperature, pool and spa thermostat set point, heating status and overall communication status. PE1501RC does not include actuators and is designed for pool or spa applications.

PE1500RC

Panel Rating – 100 Amp 120/240 VAC or 120/208 VAC single phase

Switch Rating – 17A Resistive, 120/240 VAC., 50/60 Hz; 1.5 HP @ 120 VAC., 50/60 Hz; 3.0 HP @ 240 VAC., 50/60 Hz; 10 Amp Tungsten, 120/240 VAC, 50/60 Hz

Shipping Weight – 24.3 lbs. (10.9 kg)

Agency Approval – CSA/C-US

Model #	Description/Mechanism	Circuits	Actuators	Switch	Clock Supply Volts 60 Hz
PE1541RC	PB313E	4	2	4-SPST	120 or 240
PE1501RC	PB313E	4	None	4-SPST	120 or 240



PE1541RC



T10000R



T10004R



T10404R

T10000R Series Pool & Spa Control Centers



The T10000R Series Control Centers feature an all-weather enclosure and contain one or two heavy duty timer mechanisms. In addition, they have provision to install switches or GFCI receptacle on the side and additional switches inside. The enclosure accepts any combinations of P1353ME or P4243ME or T100M or RC2000M or PF1000M Series mechanisms.

Applications

- Filter Pumps-Booster Pump Combinations
- Filter Pump-Light Controls
- Pool-Spa Combinations
- Yard Lighting
- Signs

Specifications

Case – 12" (30.5 cm) H x 12" (30.5 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied light beige finish.

Knockouts – Five combination 1/2"-3/4" and two combination 3/4"-1" knockouts on the bottom. One combination 1/2"-3/4" on the left side and one combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI.

Center Rating – 92 Amp per leg, 168 Amp Max. 120-240 VAC or 120-208 VAC single phase - 60 Hz

Time Switch Rating – 30 Amp Resistive Inductive, Tungsten or 1000 VA pilot duty each pole 120/208/240 VAC; 2 HP (24 FLA) - 120 VAC; 5 HP (28 FLA) - 240 VAC

Shipping Weight – See Table.

Agency Approval – CSA/C-US

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
T10000R	Enclosure Only	None	NA / NA	9.3 lbs (4.2 kg)
T10101R	Two T101M	SPST – SPST	120 /120	11.0 lbs (5.0 kg)
T10004R	One T104M	NA – DPST	NA / 240	10.5 lbs (4.7 kg)
T10404R	Two T104M	DPST – DPST	240 / 240	11.0 lbs (5.0 kg)
T10604R*	T106M & T104M	SPDT – DPST	240 / 240	11.0 lbs (5.0 kg)
T12404R**	T104M201 & T104M	DPST –DPST	240 / 240	11.0 lbs (5.0 kg)

* For 2 Speed Pump Applications.

** The heater protection switch (fireman switch) is closed when the time switch contacts are open to allow remote operation of the heater. A flow or pressure switch therefore must always be part of the heater control circuit.

For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A.

For additional "OFF" trippers (25 "OFF" per pack), order No. PA115.

For Stand offs for décor knockouts (4 stand-offs per pack), order No. 21T156A.

Mechanical Controls



T20000R Series 60 Amp Pool/Spa Control Panels



The T20000R Series Control Panels feature an all-weather enclosure and contain a 4 circuit breaker base, an equipment grounding bar and a mechanical time switch mechanism. The circuit breaker base accepts interchangeable type breakers made by a number of different manufacturers. In addition, the enclosure has provision for installing additional switches or GFCI receptacles on the side and inside.

Applications

- Filter Pumps
- Lights
- Ventilating Systems
- Signs
- Air Conditioners
- Heaters

Specifications

Case – 16-3/4" (42.6 cm) H x 8-7/8" (22.5 cm) W x 4-3/8" (11.1 cm) D. 0.048" steel with electrostatically applied light beige finish.

Knockouts – Five combination 1/2"-3/4" and three 3/4" - 1" on the bottom, one combination 1/2"-3/4" on the left side, one 3/4"-1" on the back and one combination 1-3/4" x 2-3/4" knockout on the right side for mounting switches or GFCI

Panel Rating – 60 Amp 120/240 VAC or 120/208 VAC; Single Phase-60 Hz

Time Switch Rating – 30 Amp Resistive Inductive, Tungsten or 1000 VA pilot duty each pole 120/208/240 VAC; 2 HP (24 FLA) - 120 VAC; 5 HP (28 FLA) - 240 VAC

Shipping Weight – See table.

Agency Approval – CSA/C-US

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
T21000R	Enclosure only	None	NA	11.2 lbs (5.0 kg)
T21001R	T101M	SPST	120	14.0 lbs (6.3 kg)
T21004R	T104M	DPST	240	14.0 lbs (6.3 kg)
T20004R*	T104M	DPST	240	14.0 lbs (6.3 kg)

* T20004R has a limited availability, T21004R is the replacement model.
 For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A
 For additional "OFF" trippers (25 "OFF" per pack), order No. PA115
 For Stand offs for décor knockouts (4 stand-offs per pack), order No. 21T156A



T21000R



T21004R



T20004R



Mechanical Controls



T30000R Series 100 Amp Pool/Spa Control Panels

The T30000R Series Control Panels reduce installation costs and provide all of the electrical requirements for any pool and/or spa installation. They offer an all-in-one electrical control center which can be custom wired for a wide variety of requirements, and eliminate the need for additional junction boxes and service panels. The enclosure accepts any combinations of P1353ME or P4243ME or T100M or RC2000M or PF1000M Series mechanisms

Applications

- Filter Pumps
- Booster Pumps
- Heating Systems
- Lights
- Cleaning Systems
- Security Systems
- Fountains
- Sprinkler Systems
- Valve Actuators
- Yard Lights

Specifications

Case – 16-1/2" (41.9 cm) H x 10-7/8" (27.6 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied beige finish

Knockouts – Two 1/2", three combination 1/2"-3/4", and two combination 3/4"-1" knockouts on the bottom. Four 1/2", three combination 1/2"-3/4" on the back. One combination 3/4"-1" on the left side. One 1-3/4" x 2-3/4" knockout on the right side for mounting switches and GFCI.

Panel Rating – 100 Amp., 120-240 VAC or 120-208 VAC single phase - 60Hz.

Timer Switch Rating – 30 Amp Resistive Inductive, Tungsten or 1000 VA pilot duty each pole 120/208/240 VAC; 2 HP (24 FLA) - 120 VAC; 5 HP (28 FLA) - 240 VAC

Shipping Weight – See table.

Agency Approval – CSA/C-US



T30000R5



T30004R



T32404R

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
T30000R5	Enclosure Only	None	NA / NA	18.6 lbs (8.4 kg)
T30004R	One T104M	None / SPST	NA / 240	18.6 lbs (8.4 kg)
T30401R	T104M & T101M	DPST / SPST	240 / 120	18.6 lbs (8.4 kg)
T30404R	Two T104M	DPST / DPST	240 / 240	18.6 lbs (8.4 kg)
T30604R	T106M & T104M	SPDT / DPST	240 / 240	18.6 lbs (8.4 kg)
T32404R	T104M201 & T104M	DPST / DPST	240 / 240	18.6 lbs (8.4 kg)

* The heater protection switch (fireman switch) is closed when the time switch contacts are open to allow remote operation of the heater. A flow or pressure switch therefore must always be part of the heater control circuit.

For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A.

For additional "OFF" trippers (25 "OFF" per pack), order No. PA115.

For Stand offs for décor knockouts (4 stand-offs per pack), order No. 21T156A.

Quality Pool & Spa Controls



T40000R Series 125 Amp Pool/Spa Control Panels



The T40000R Series Control Panels reduce installation costs and provide all of the electrical requirements for any pool and/or spa installation. They offer an all-in one electrical control center which can be custom wired for a wide variety of requirements, and eliminate the need for additional junction boxes and service panels. The enclosure accepts any combinations of P1353ME or P4243ME or T100M or RC2000M or PF1000M Series mechanisms.

Applications

- Filter Pumps
- Booster Pumps
- Heating Systems
- Lights
- Cleaning Systems
- Security Systems
- Fountains
- Sprinkler Systems
- Yard Lights

Specifications

Case – 20-3/4" (52.7 cm) high x 12-3/4" (32.4 cm) wide x 4-1/4" (10.8 cm) deep, 0.048" steel with electrostatically applied light beige finish

Knockouts – Seven combination 1/2"-3/4" and three combination 3/4"-1" knockouts on the bottom. Five combination 1/2"-3/4" on the left side. One 1-3/4" x 2-3/4" knockout on the right side for mounting switches and GFCI

Panel Rating – 1

Timer Switch Rating – 30 Amp Resistive Inductive, Tungsten or 1000 VA pilot duty each pole 120/208/240 VAC; 2 HP (24 FLA) - 120 VAC; 5 HP (28 FLA) - 240 VAC

Shipping Weight – See table.

Agency Approval – CSA/C-US

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
T40000R	Enclosure Only	None	NA	16.0 lbs (7.2 kg)
T40004R	One T104M	DPST	NA / 240	20.5 lbs (9.2 kg)
T40404R	Two T104M	DPST	240 / 240	21.2 lbs (9.5 kg)

For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A.

For additional "OFF" trippers (25 "OFF" per pack), order NO. PA115.

For additional stand-offs for décor knockouts (4 stand-offs per pack), order No. 21T156A.

T40000R Series 100 Amp Specialty Control Panels

These specialty Control Panels are the same as the T40000R Series, except they have been designed for specialty applications. Models include a factory installed GFCI, or stainless steel panel for high corrosive environments or an inside wiring compartment for two devices. These enclosures accept any combinations of T100M, P1353ME, P4243ME or T100M or RC2000M or PF1000M Series mechanisms.

Applications - Same as above.

Specifications

Case, Knockouts, Timer Switch Rating & Agency Approval – Same as above

Panel Rating – 115 Amp. 120-240 VAC or 120-208 VAC single phase - 60 Hz.

Shipping Weight – See table.

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
T40000R4*	Inside Compartment	None / None	NA / NA	19.4 lbs (8.7 kg)
T40004RSS**	One T104M	None / DPST	NA / 240	20.5 lbs (9.2 kg)
T40004R5	One T104M & GFCI Installed	None / DPST	NA / 240	21.6 lbs (9.7 kg)
T40404R5	Two T104M & GFCI Installed	DPST / DPST	240 / 240	24.6 lbs (11.0 kg)

* Enclosure only with inside wiring compartment for twist-lock receptacle and GFCI.

** Stainless Steel Enclosure.

For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A.

For additional "OFF" trippers (25 "OFF" per pack), order NO. PA115.

For additional stand-offs for décor knockouts (4 stand-offs per pack), order No. 21T156A.





Safety Transformers



T10004RT1



T40004RT3



PE45343RCT3

T10000RT, T40000RT & PE45343RCT Series



Pool Panels with Transformer

These Panels with Transformer offer an all-in-one, easy to wire and extremely cost effective electrical control center for any pool or spa installation. Inside the enclosure are the time switch, the transformer and other components needed for the completion of this installation. The T40000RT Series panels will accept additional Intermatic mechanisms and/or components.

The PE45343RCT Series includes all the features of the PE Series Digital Controls plus two PE24VA valve actuators, Wireless Panel Mounted Transceiver (PE950), which allows the system to display the status of each of the five circuits (3 timed and 2 on demand), pool and spa water temperature, pool and spa thermostat set point, heating status and overall communication status.

Applications

- Filter Pumps
- Low Voltage Outdoor Lighting
- Blowers
- Fountains
- Low Voltage Pool/Spa Lighting

Specifications

T10000RT Series

Case – 12" (30.5 cm) H x 12" (30.5 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied light beige finish

Knockouts – Five combination 1/2"-3/4" and two combination 3/4"-1" knockouts on the bottom.

One combination 1/2"-3/4" on the left side and one combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI

Center Rating – 92 Amp per leg, 168 Amp Max. 120-240 VAC or 120-208 VAC single phase - 60 Hz.

T40000RT Series

Case – 20-3/4" (52.7 cm) high x 12-3/4" (32.4 cm) wide x 4-1/4" (10.8 cm) deep, 0.048" steel with electrostatically applied light beige finish.

Knockouts – Seven combination 1/2"-3/4" and three combination 3/4"-1" knockouts on the bottom. Five combination 1/2"-3/4" on the left side. One 1-3/4" x 2-3/4" knockout on the right side for mounting switches and GFCI.

Panel Rating – T40000RT Series - 100 Amp 120-240 VAC or 120-208 VAC single phase - 60 HZ

Timer Switch Rating – 30 Amp Resistive Inductive, Tungsten or 1000 VA pilot duty each pole 120/208/240 VAC; 2 HP (24 FLA) - 120 VAC; 5 HP (28 FLA) - 240 VAC

PE45343RCT Series

Case – 12" (30.5 cm) H x 12" (30.5 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied light beige finish

Knockouts – Five combination 1/2"-3/4" and two combination 3/4"-1" knockouts on the bottom.

One combination 1/2"-3/4" on the left side and one combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI

Panel Rating – T40000RT Series - 100 Amp 120-240 VAC or 120-208 VAC single phase - 60 HZ

Agency Approval – CSA/C-US

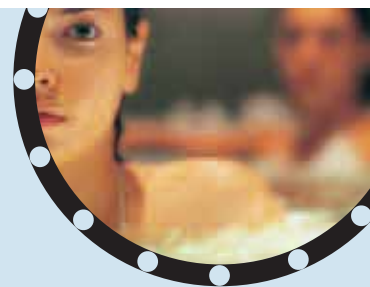
Model #	Transformer	Input 60 Hz	Output	Mechanism	Shipping Weight
T10004RT1	100 Watt	120V, 1 Amp	12V, 13V,	T104M	14.0 lbs (6.3 kg)
T10004RT3	300 Watt	120V, 3 Amp	12V, 13V, 14V	T104M	20.0 lbs (9.0 kg)
T40003RT3	300 Watt	120V, 3 Amp	12V, 13V, 14V	T103M	32.0 lbs (14.4 kg)
T40004RT1	100 Watt	120V, 1 Amp	12V, 13V,	T104M	26.0 lbs (11.7 kg)
T40004RT3	300 Watt	120V, 3 Amp	12V, 13V, 14V	T104M	32.0 lbs (14.4 kg)
PE45343RCT1	100 Watt	120V, 1 Amp	12V, 13V	P1353ME & P4243ME	56.0 lbs (25.2 kg)
PE45343RCT3	300 Watt	120V, 3 Amp	12V, 13V, 14V	P1353ME & P4243ME	61.0 lbs (27.5 kg)

For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A.

For additional "OFF" trippers (25 "OFF" per pack), order No. PA115.

For stand-offs for décor knockouts (4 stand-offs per pack), order No. 21T156A. Note: See Page 29 for a detailed list of T100M replacement mechanisms and page 16 for PE650 and PE950 specifications

Safety Transformers



PX100, PX300 & PX600 Series Safety Transformers



These Safety Transformers are specifically designed to supply 12 volts to pool/spa lights, submersible fixtures and outdoor garden lights. A grounded shield between the primary and secondary windings assures safe operation and the built-in circuit protection will disconnect power to the transformer in case of defect or overload.

Applications

- Pool Lights
- Spa Lights
- Garden Lights
- Fountain Lights

Specifications - PX100/S, PX300/S

Enclosure – 7.25" (19.4 cm) H x 5.25" (13.3 cm) W x 4.5" (11.4 cm) D. Stainless steel or steel with electrostatically applied light beige finish. Mounting brackets top and bottom.

Knockouts – Total of ten combination 1/2"-3/4" knockouts, (2) right side, (2) left side, (2) back, (4) bottom.

Electrical Rating – See table.

Shipping Weight – See table.

Specifications – PX600/S

Enclosure – 10" (25.4 cm) high x 10" (25.4 cm) wide x 5" (12.7 cm) deep. Stainless steel or steel with electrostatically applied light beige finish. Mounting brackets top and bottom.

Knockouts – Two combination 1/2"-3/4", and 4 combination 3/4"-1" knockouts on the bottom. Total of six combination 1/2"-3/4" knockouts, (2) right side, (2) left side, (2) back.

Electrical Rating – See table.

Shipping Weight – See table.

Model #	Description	Input	Output	Shipping Weight
PX100	100 Watt Beige Steel Enclosure	120V, 1AMP	12 or 13V	7.0 lbs (3.2 kg)
PX100S	100 Watt Stainless Steel Enclosure	120V, 1AMP	12 or 13V	7.0 lbs (3.2 kg)
PX300	300 Watt Beige Steel Enclosure	120V, 3AMP	12,13 or 14V	13.0 lbs (5.9 kg)
PX300S	300 Watt Stainless Steel Enclosure	120V, 3AMP	12,13 or 14V	13.0 lbs (5.9 kg)
PX600	600 Watt Beige Steel Enclosure	120V, 6AMP	12,13 or 14V	26.0 lbs (11.7 kg)
PX600S	600 Watt Stainless Steel Enclosure	120V, 6AMP	12,13 or 14V	26.0 lbs (11.7 kg)



PX100



PX100S



PX300



PX300S



PX600



PX600S



Freeze Protection Controls



PF1100 Series Single Circuit Freeze Protection Controls

These Freeze Protection Controls are designed to protect the pool and spa equipment and plumbing against freeze damage. They turn the pump and the heater ON when the outdoor temperature drops below the temperature set by the user-adjustable thermostat.

Models without timer connect to a timing or switching device and together, they control operation of the equipment as well as protect it against freeze damage. Models with timer provide both automation and protection for the equipment.

APPLICATIONS

- Filter Pumps
- Filter Pump/Booster Pump Combinations
- Waterfalls
- Water Features

SPECIFICATIONS

CASE - 0.034 inch drawn steel, electrostatically coated, beige color. Hasp, with hole for lock, holds permanently attached side-hinged door closed. 9-3/8" (23.8 cm) high x 5-1/4" (14.0 cm) wide x 3-5/8" (9.2 cm) deep.

KNOCKOUTS - 1/2" - 3/4" combination knockouts, one back, one on each side, two bottom.

THERMOSTAT RANGE - 45°F - 32°F with 5 degrees differential.

ELECTRICAL RATING - See table

SHIPPING WEIGHT - See table.

AGENCY APPROVAL - CSA/C-US



PF1102M



PF1102



PF1103MT



PF1103T

Model #	Description	Input	Rating H.P.	Shipping Weight
PF1102	Thermostat only. For 240V installation.	240V	3	3.7 lbs (1.7 kg)
PF1102M	Same as above, mechanism only.	240V	3	2.0 lbs (0.9 kg)
PF1102T	Timer with thermostat. For 240V installation.	240V	3	4.5 lbs (2.0 kg)
PF1102MT	Same as above, mechanism only.	240V	3	2.5 lbs (1.1 kg)
PF1103	Thermostat only. For 120/240V installation.	120/240V*	1.5/3	3.7 lbs (1.7 kg)
PF1103M	Same as above, mechanism only.	120/240V*	1.5/3	2.0 lbs (0.9 kg)
PF1103T	Timer with thermostat. For 120/240V installation	120/240V*	1.5/3	4.5 lbs (2.0 kg)
PF1103MT	Same as above, mechanism only.	120/240V*	1.5/3	2.5 lbs (1.1 kg)

* Neutral must be installed.

Freeze Protection Controls



PF1100 & PF1200 Series Multi Circuit Freeze Protection Control Centers & Panels



These heavy-duty Freeze Protection Controls are designed specifically for pools requiring one or two time switches and protect the pool and spa equipment and plumbing against freeze damage. They turn the pump and the heater ON when the outdoor temperature drops below the temperature set by the user-adjustable thermostat. In addition, they have a provision to install switches inside or GFCI receptacle on the side of enclosure.

Applications

- Filter Pumps
- Filter Pump-Booster Pump
- Fountains
- Combinations
- Pool-Spa Combinations

Specifications

PF1112T, PF1202T

Case – 12" (30.5 cm) H x 12" (30.5 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied light beige finish.

Knockouts – Five combination 1/2"-3/4" and two combination 3/4"-1" knockouts on the bottom. One combination 1/2"-3/4" on the left side and one combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI

Center Rating – 92 Amp per leg, 168 Amp Max. 120-240 VAC or 120-240VAC single phase - 60 Hz.

Electrical Rating – See table.

Thermostat Range – 44°F - 32°F with 5 degrees differential.

Shipping Weight – See table.

Agency Approval – CSA/C-US

PF1222TB

Case – 16-1/2" (41.9 cm) H x 10-7/8" (27.6 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied beige finish.

Knockouts – Two 1/2", three combination 1/2"-3/4", and two combination 3/4"-1" knockouts on the bottom. Four 1/2", three combination 1/2"-3/4" on the back. One combination 3/4"-1" on the left side. One 1-3/4" x 2-3/4" knockout on the right side for mounting switches and GFCI.

Panel Rating – 100 Amp max., 120-240 VAC or 120-208 VAC single phase - 60 Hz.

Electrical Rating – See table.

Thermostat Range – 44°F - 32°F with 5 degrees differential.

Shipping Weight – See table.

Agency Approval – CSA/C-US

Model #	Description	Electrical Input	Rating HP	Shipping Weight
PF1112T	For pools requiring one time switch	240V	3	8.0 lbs (3.6 kg)
PF1202T	For pools with cleaner, requiring two time switches	240V	3	10.0 lbs (4.5 kg)
PF1222TB	Same as a PF1202T with 4/8 breaker base and heater protection	240V	3	17.0 lbs (7.7 kg)

For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A.

For additional "OFF" trippers (25 "OFF" per pack), order NO. PA115.

For additional stand-offs for décor knockouts (4 stand-offs per pack), order No. 21T156A.



PF1112T



PF1202T



PF1222TB



Air Operated Controls

Air Operated Pool/Spa & Pool-to-Spa Controls



This line of Air Operated Controls is specially designed to control pool/spa combinations economically and reliably for up to 100 ft. away from the equipment. Everything needed to control the filter pump, valves, heater thermostat, booster pump, blower or lights is included in a single package and can be installed in less than two hours. A number of accessories are available to enhance the control capacity of these units. Comes complete with two PE24VA 24-Volt valve actuators.

Applications

- Pool/Spa Combinations
- Water Features

Specifications

Case – 0.048" steel with electrostatically applied light beige finish. See table for nominal dimensions.

Maximum Range – 100 ft. (The actual distance between the control and air button depends on the amount of displaced air, the inside diameter of the air hose and other factors beyond the control of the manufacturer.)

Timer – 24 Hour Electronic.

Specifications/Features	RC2163E	RC2163FE	RC2263E	RC2403RT
Voltage	120/240	120/240	120/240	120/240
Remote Command	1-Air	Any Switch*	1-Air	2-Air
Filter Pump	Timer Controlled in Pool Mode	Y	Y	Y
	Single Speed Only (HP)	3 HP	3 HP	NA
	Single or Two Speed (HP)	NA	NA	2 HP
Heater Control (Single or Two Stage)	Y	Y	Y	NO
Number of Valve Actuator Connections	3	3	3	0
Heater Protection (Optional)	Y	Y	NO	NO
Blower	NO	NO	Y	Y
Independent Circuit (DPST 30A, 3HP-240V)	NO	NO	NO	Y
Standard Enclosure (In)	12.9 x 10.9 x 4.3	12.9 x 10.9 x 4.3	12.9 x 10.9 x 4.3	12.9 x 10.9 x 4.3
Number of Breaker Space	NA	NA	NA	NA
Shipping Weight (lbs)	20.0 (9.0 kg)	20.0 (9.0 kg)	23.7 (10.7 kg)	19.0 (8.6 kg)
Reference Picture	RC2163E	RC2163E	RC2163E	RC2163E

*Can use spring wound timer, toggle switch or remote control with transmitter to operate equipment

Specifications/Features	RC2163BE	RC2163BFE	RC2263BE
Voltage	120/240	120/240	120/240
Remote Command	1-Air	Any Switch*	1-Air
Filter Pump	Timer Controlled in Pool Mode	Y	Y
	Single Speed Only (HP)	3 HP	3 HP
	Single or Two Speed (HP)	NA	NA
Heater Control (Single or Two Stage)	Y	Y	Y
Number of Valve Actuator Connections	3	3	3
Heater Protection (Optional)	Y	Y	NO
Blower	NO	NO	Y
Independent Circuit (DPST 30A, 3HP-240V)	NO	NO	NO
Standard Enclosure (In)	16.8 x 10.9 x 4.3	16.8 x 10.9 x 4.3	16.8 x 10.9 x 4.3
Number of Breaker Space	8/16	8/16	8/16
Shipping Weight (lbs)	24.3 (10.9 kg)	24.3 (10.9 kg)	28.0 (12.6 kg)
Reference Picture	RC2263BE	RC2263BE	RC2263BE



RC2403RT

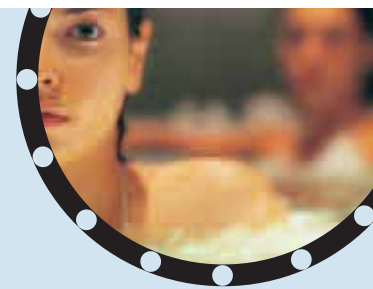


RC2163E



RC2263BE

Electronic Time Switches



P1000 & P7000 Series Electronic Time Switches and Mechanisms

This line of electronic time switches in safety enclosures are specially suited for applications where a need to turn equipment up to 8 ON and OFF cycles daily, and where the automatic operation of the equipment requires occasional override by someone other than a qualified service professional. Electronic technology allows up-to-the-minute programming accuracy. The unique "door within the door" provides safe access to the timer control buttons, but prevents entry into the wiring compartment. Light indicator illuminates when timer is in ON position. An override feature is provided to allow pool service without interruption of ON-OFF settings. Select feature allows timer to be continuously ON, OFF or in Auto mode. The addition of a radio receiver (Model P1203FR) provides a 2nd circuit for any other load (light, blower etc.) requiring control from a remote location. Typical application for the clock circuit would be the pool pump, and a pool light for the radio circuit. In case of power failure, a replaceable battery preserves programming for up to three years.

Applications

- Filter pumps
- Pool/Spa lights
- Water Features
- Fountains

Specifications

Case – All plastic NEMA 3R rated for indoor-outdoor installation. 9-3/8" (23.9 cm) H, 5-1/2" (14.0 cm) W, 3-5/8" (9.2 cm) D in beige finish.

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

Rating – P1102FE - 3.0 HP @ 240V, 30 Amp resistive; P1203FR - 1.5 HP @ 120V, 3.0 HP @ 240V, 30 Amp resistive; Radio Circuit - 15 Amp resistive, 10 Amp Tungsten, 1 HP motor load - 120 VAC

Shipping Weight - 3.75 lbs (1.7 kg)

Agency Approval – CSA/C-US

Model Number	Description	Switch	Supply Voltage 50/60 Hz
P1102ME	24-Hour Electronic Mechanism Only	One DPST	240V only clock & load
P1103ME	24-Hour Electronic Mechanism Only	One DPST	120V for clock 120V or 240V only clock & load
P7101ME	7-Day Electronic Mechanism Only	One DPST	120V only clock & load
P7102ME	7-Day Electronic Mechanism Only	One DPST	240V only clock & load
P7103ME	7-Day Electronic Mechanism Only	One DPST	120V for clock 120V or 240V only clock & load
P1102FE	24-Hour Electronic Time Switch	One DPST	240V only clock & load
P1103FE	24-Hour Electronic Time Switch	One DPST	120V for clock 120V or 240V only clock & load
P1203FR	24-Hour Electronic Time Switch Radio Receiver Module	One DPST One SPST	3.0 HP - 208-240V only clock & load 120V only receiver & load



P1102ME



P1102FE



P1203FR



Radio Remote Controls



RC600 & RC900 Outdoor Radio Remote Controls

These Modular Radio Receivers are one half of a two part remote control system. They operate as ordinary ON/OFF switches but they also respond to the signals of a hand held transmitter — the other half of the system. The modules are designed for indoor or outdoor use, and can handle a variety of switching applications, typical around the house or farm. By the push of a button on the face of the transmitter, the user is able to turn ON-OFF the connected load (lights, pump, etc.) from any remote location, inside or outside of the house, safely and conveniently. In addition, a single transmitter can operate up to three receivers and is able to “teach” each module a different code (Transmitter model RC939 sold separately).



RC613R



RC613L



RC939

Applications

- Pool/Spa Pumps, Lights and Heaters
- Fountain Pumps
- Outdoor Lighting
- Motorized Valves
- Air Blowers
- Signs
- Motorized Gates

Specifications

Enclosure – Beige outdoor grade plastic.
Maximum Range – 100 ft. See transmitter model RC939 for details.

Model #	Description	Electrical Rating	Size	Shipping Weight
RC613	Receiver with ON/OFF Button	15 Amp Resistive, 10 Amp (1200 W) Tungsten, 1 HP, Motor Load - 120 V	4-1/2" H (11.4 cm) 3" W (7.6 cm), 1-1/4" D (4.0 cm)	0.5 lbs (0.2 kg)
RC613L	RC613 with (3) 36" Long Leads	Same as RC613	Same as RC613	0.7 lbs (0.3 kg)
RC613R	Heavy Duty Receiver Module	30 Amp Resistive, 120/240 V 12.5 Amp (1500 W), 1.5 HP - 140 V 1.5 HP - 140 V, 3 HP - 240 V, Double Pole, Single Throw Contacts	7-3/4" H (19.7 cm) 4" W (10.7 cm) 3-1/2" D (8.9 cm)	1.4 lbs (0.6 kg)
RC615	Timer Interface Module without Manual Button	Same as RC613	Same as RC613	0.5 lbs (0.2 kg)

Hand Held Radio Transmitter

This hand held radio transmitter operates the shared equipment of a pool/spa combination by the touch of a button. In addition, more buttons are available on the transmitter to turn ON-OFF a booster pump, a blower and lights.

Applications

- Pool-Spa Combinations
- Water Features

Specifications

Enclosure – Beige plastic, 4-3/8" (11.1 cm) H, 2-3/4" (7.0 cm) W and 1" (2.5 cm) D.

Model #	Description	Range*	Battery	Shipping Weight
RC939	3 Channel Radio Transmitter	100 ft.	9V Transistor type	0.5 lbs (0.2 kg)

* The range is 100 feet but depends on many factors like the age of the battery, proximity of large metal objects, the location of the receiver and environmental conditions at the time of transmission.

Portable Outdoor Timers



P1200 Series Two-Circuit Portable Outdoor Timer



These Portable Two-circuit Above Ground Pool Timers incorporate a plug in for a timed circuit (normally used for a pool pump) and a plug in for a live circuit (typically used for a pool light). GFCI protected circuits and a three-prong grounded plug for the time switch supply are also built-in.

Applications

- Above ground pool pumps
- Above ground pool lights

Specifications



Case - NEMA 3R rated for indoor-outdoor installation.

9-3/8" (23.8 cm) high x 5-1/2" (14.0 cm) wide x 3-5/8" (9.2 cm) deep

Knockouts - Combination 1/2" - 3/4" nominal knockouts, one on the back and each side of case, two pre-cut on bottom

Timer - 24 hour with 23-1/2 hour maximum ON time. Two ON, two OFF trippers - standard. Dial will accept up to 12 sets of trippers.

Shipping Weight - 2.8 lbs. (1.3kg)

Model	Description	Electrical	Plug & Receptacle
P1261P	PB913N84 Timer	15 Amp (1800 W), Resistive or Tungsten 1 HP, 15 FLA (96 LRA) Motor Load	5-15 
P1261PE	PB313E Electronic Timer	15 Amp (1800 W), Resistive or Tungsten 1 HP, 15 FLA (96 LRA) Motor Load	5-15 

For additional trippers (2 "ON" 2 " OFF" per pack), order No. 156PB10398A

P1100 Series Portable Outdoor Timers — Heavy Duty Outdoor Timers

These Portable Outdoor Timers are specially designed to control the filter pump of a portable pool or spa, but they can also be used to turn ON and OFF (in off-season) outdoor decoration, engine block heaters and other appliances, indoors or outdoors.

Applications




- Filter Pumps
- Signs
- Engine Block Heaters
- Air Conditioners
- Lights
- Fans

Specifications

Case - Outdoor grade plastic. 5" (12.7 cm) H x 5-1/2" (13.97 cm) W x 3-3/4" (9.52 cm) D. Cord - 3 wire, outdoor grade, 22" long.

Timer - 24 hour with 23-1/2 hour maximum ON time. Two ON, two OFF trippers - standard. Dial will accept up to 12 sets of trippers.

Shipping Weight - 1.7 lbs (0.7 kg)

Model #	Description	Electrical	Plug & Receptacle
P1101	Timer	15 Amp (1800 W), Resistive or Tungsten 1 HP Air Conditioner, 15 FLA (96 LRA), Motor Load	5-15
P1121	Timer	15 Amp (1800 W), Resistive or Tungsten 1 HP Air Conditioner, 15 FLA (96 LRA), Motor Load	5-15 
P1131	Heavy-Duty Timer with Twist-Lock Plug & Receptacle	Resistive, 1 HP, 16 FLA (96 LRA) Motor Load	5L-20 
P1161	Safety Timer with Ground Fault Circuit Protection	15 Amp (1800 W) Resistive, Tungsten 15 FLA (90 LRA) Motor	5-15 

For additional trippers (2 "ON" 2 " OFF" per pack), order No. 156PB10398A



P1261P



P1261PE



P1101



P1121



P1131



P1161



Pool/Spa Accessories



PJB4175



PJB2175



PA114



PAV320



PAV220C



For maximum convenience in pool/spa automation, PAV Series water valves can be used in conjunction with Intermatic PE24VA valve actuators.

PJB Series

Pool/Spa Junction Box & Mounting Bracket

These polymeric, water tight, multi-fixture Junction Boxes are especially designed for pools, pool-spa combinations and landscape applications. The PJB4175 provides safe and reliable connection for up to four lights. While the PJB2175 supports up to two lights. They will accommodate flexible cords from #16-3 up to #12-3 and #10-3 in any combination and non-metallic conduits from 1/2 to 1 inch, including one for supply conductor feed. An optional wall/post mounting bracket is also available.

Applications

- Pool Lights
- Spa Lights
- Landscape Lights

Specifications

Case – Outdoor grade plastic. PJB4175 - 7.5" L x 4.75" W x 5.0" D. PJB2175 - 7.0" L x 3.0" W x 4.0" D

Model #	Description	Light Connection	Case Qty.	Shipping Weight
PJB2175	Pool/Spa Light Junction Box	2	24	19.2 lbs (8.6 kg)
PJB4175	Pool/Spa Light Junction Box	4	12	13.2 lbs (6.0 kg)
PA114	Wall/Post Mounting Bracket	—	10	5lbs (2.3 kg)

PAV Series

Maintenance Free Water Valves

Intermatic's Maintenance Free Water Valves have been designed to provide reliable control of water flow to pools, spas, solar collectors, cleaners and water features. These 2-way and 3-way valves have excellent flow characteristics while maintaining back pressure. Manufactured with Intermatic's high quality standards, the PAV Series Water Valves offer long maintenance free performance.

Applications

- Pools
- Spas
- Fountains
- Water Features

Standard Features

- Teflon-coated diverter requires no lubrication and ensures maintenance free performance
- Innovative field adjustable stop ensures precise valve positioning
- 1-1/2" valves fit 1-1/2" and 2" plumbing, 2" valves fit 2" and 2-1/2" plumbing
- Available in standard PVC and high temperature CPVC

Model	Port Size	Configuration	Material	Shipping Weight Each
PAV215	1-1/2"	2-WAY	PVC	1.5 lbs (0.6 kg)
PAV215C	1-1/2"	2-WAY	CPVC	1.5 lbs (0.6 kg)
PAV220	2"	2-WAY	PVC	1.6 lbs (0.7 kg)
PAV220C	2"	2-WAY	CPVC	1.6 lbs (0.7 kg)
PAV315	1-1/2"	3-WAY	PVC	1.5 lbs (0.6 kg)
PAV315C	1-1/2"	3-WAY	CPVC	1.5 lbs (0.6 kg)
PAV320	2"	3-WAY	PVC	1.6 lbs (0.7 kg)
PAV320C	2"	3-WAY	CPVC	1.6 lbs (0.7 kg)

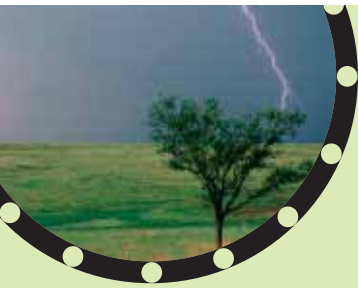
Model #	Description	Voltage	Shipping Weight Each
PE24VA	Valve Actuator	24 VAC	3.5 lbs (2.2 kg)

Setting a New Standard for Protection

The same quality and coverage you've come to expect from Intermatic controls can also be found in a complete line of panel-mount and point-of-use surge protection — from high current capacity industrial models to residential models, with integrated phone and coax protection.

On average, the typical home or business gets hit with more than 2,000 electrical surges annually, costing home and business owners more than \$26 billion dollars. As more and more homes begin housing more elaborate home theater and entertainment systems, home offices and other appliances, it is becoming increasingly important to protect all electronic investments from transient voltage or "bad power."

SURGE PROTECTION



Why Every Facility Needs Surge Protection

Electrical disturbances and downtime cost North American Companies more than \$26 billion every year. Every process within your building is controlled by electrical and electronic components which all require surge protection to function reliably.

ANSI/IEEE has defined common disturbances which occur in modern facilities per the waveforms to the left. Depending on the proximity of the equipment to your power entry points, the severity increases. As the transient event propagates throughout your building, it degrades your electronic components by stressing them with excess voltage and current.

Every modern facility is a strong candidate for protection. Intermatic has a broad line of Service Entrance, Panelboard and Point-of-Use Protection to select from.

Service Entrance, Panelboard and Point-of-Use surge protection can be found in the following types of facilities and installations:

- Manufacturing
- Healthcare/Medical
- Education/University
- Data Centers
- Telecom/Cell Sites
- Utility
- Correctional
- Military Installations
- Airports
- Broadcast Studios
- Financial Institutions
- Retail
- General Office
- Semiconductor Fabrication
- Wastewater Facilities
- Restaurants
- Entertainment Facilities

Virtually all devices which are powered by electricity are vulnerable. Surge Suppression is required for protection of the following types of systems:

- Computer/Peripherals
- Network Servers/Routers/Modems
- Telecom Equipment
- Variable Frequency Drives
- Lighting Ballasts
- HVAC Controls
- Fire Alarm Systems
- Security Systems
- Lighting Control and Dimming Systems
- Automatic Test Equipment
- Wafer Fabrication Equipment
- Uninterruptible Power Supplies
- Bar Code Scanning Equipment
- Programmable Logic Controllers
- CNC Machines
- Pumps, motors and related equipment which has electronic controls or starters

Surge Suppression Definitions

Surge Current Capacity is the rated surge current that a design will withstand based on the standard 8 x 20 microsecond current waveform. Nema LS-1 states that this should be given for each mode of a surge protection device, since devices can have different components in each mode.

Modes of Protection are the coupling paths that exist in a single or three phase system.

In a three phase wye system there are 10 potential modes where a transient can be coupled:

- | | | | |
|---------------|-------------------|---------------|--------------|
| L1 to Neutral | L1 to Ground | L2 to Neutral | L2 to Ground |
| L3 to Neutral | L3 to Ground | L1 to L2 | L2 to L3 |
| L3 to L1 | Neutral to Ground | | |

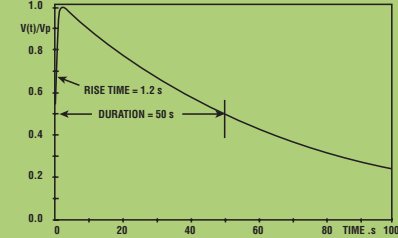
In a three phase delta system there are six potential modes where a transient can be coupled:

- | | | |
|--------------|--------------|--------------|
| L1 to Ground | L2 to Ground | L3 to Ground |
| L1 to L2 | L2 to L3 | L3 to L1 |

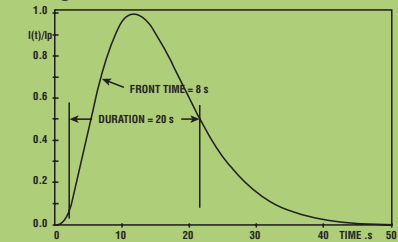
All modes must have suppression components coupled between them in order to be 100% effective.

MCOV (Maximum Continuous Operating Voltage) is the maximum steady state rms voltage at which the unit can safely operate. The recommended MCOV is 115% of nominal voltage for all voltage configurations.

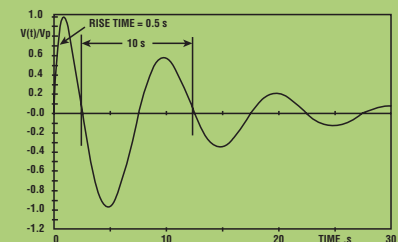
EMI/RFI Noise Attenuation is a way to rate filter performance over a range of specific frequencies. IEEE characterizes line noise as less than two times peak voltage. Line noise can be somewhat attenuated by the capacitance found in MOVs, but typically requires the addition of capacitors to increase effectiveness. EMI/RFI filters should be UL1283 Listed for safety.



Voltage Waveform



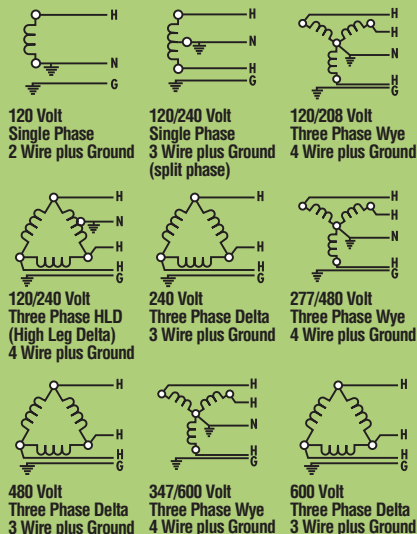
Current Waveform



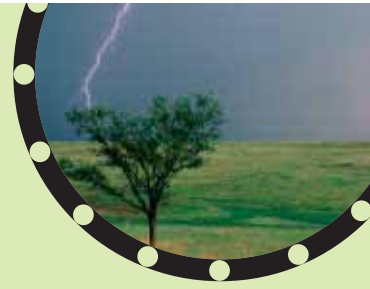
100 kHz Ringwave

System Voltage

The wiring diagrams characterize common voltage configurations available for the products. Refer to individual product pages for models available in below configurations. Match the voltage configuration below with your voltage configuration at your Service Entrance, Distribution Panel or Panelboard location where you want protection.



Standards and Guidelines



ANSI/IEEE C62.41.1-2002 and ANSI/IEEE C62.41.2-2002 are the recognized American National Standards for establishing the surge withstand capability of equipment connected to utility power circuits in residential, commercial or industrial applications. The standard has established the following Location Categories which can be applied to virtually any type of facility.

Category C

- Outside and Service Entrance
- Any underground lines
- Overhead line to detached building

Category B

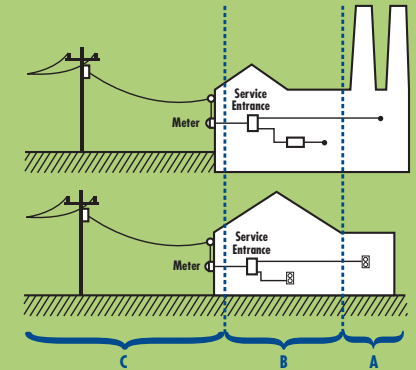
- Feeders and short branch circuits
- Distribution panel devices
- Lighting systems in large buildings

Category A

- Outlets and long branch circuits

The following values and waveforms are recognized within Categories C, B and A. Location Category C is the Outside and Service Entrance and the harshest surge environment.

Combination Waves			Ring Waves		
	1.2 x 50 microsecond / 8 x 20 microsecond			100KHz 0.5 microsecond	
Location Category	Voltage (Peak) 1.2 x 50 μ sec.	Current (Peak) 8 x 20 μ sec.	Location Category	Voltage (peak)	Current (peak)
A	6,000 Volt	500 Amp	A	6,000 Volts	200 Amp
B	6,000 Volt	3,000 Amp	B	6,000 Volts	500 Amp
C low	6,000 Volt	3,000 Amp			
C high	10,000 Volt	10,000 Amp			



ANSI/IEEE C62.45 is the American National Standard for uniform testing of surge suppression devices. All Intermatic testing follows these guidelines.

Nema Standard LS-1 is the National Electrical Manufacturers Association specification guideline for low voltage surge protection devices.

Underwriters Laboratories – UL1449 has recently been revised (August 1998) and requires surge suppression devices to safely pass overvoltage tests, abnormal overvoltage tests, short circuit withstand tests as well as assigns suppress voltage ratings based on a 6 KV, 500 Amp combination wave or impulse.

UL1283 – The safety standard for EMI/RFI noise attenuation filters. While this device does not rate filters or performance – it does provide a level of testing to ensure the filter is safe for commercial application.

Product Selection Chart – Surge Suppression Recommendations

The following guidelines can be followed for Intermatic products:

Choose Model by Voltage and distance from incoming Service

Location	480 VAC	277/480 VAC	120/208 VAC Wye	Refer to Page
Large Service Entrance (2000 to 4000 Amperes)				
Best	PG5001-480-3DLL	PG5001-480-3Y	PG5001-208-3Y	90
Better	PG4501-480-3DLL	PG4501-480-3Y	PG4501-208-3Y	91
Good	PG4001-480-3DLL	PG4001-480-3Y	PG4001-208-3Y	92
Small Service Entrance (Less than 1600 Amperes)				
Best	PG4501-480-3DLL	PG4501-480-3Y	PG4501-208-3Y	91
Better	PG4001-480-3DLL	PG4001-480-3Y	PG4001-208-3Y	92
Good	PG100-480-3DLL	PG100-480-3Y	PG100-208-3Y	93
Large Distribution Panel (1000 to 1600 Amperes)				
Best	PG4001-480-3DLL	PG4001-480-3Y	PG4001-208-3Y	92
Better	PG100-480-3DLL	PG100-480-3Y	PG100-208-3Y	93
Good	PG80-480-3DLL	PG80-480-3Y	PG80-208-3Y	95
Small Distribution Panel (600 to 1000 Amperes)				
Best	PG100-480-3DLL	PG100-480-3Y	PG100-208-3Y	93
Better	PG80-480-3DLL	PG80-480-3Y	PG80-208-3Y	95
Good	PG60-480-3DLL	PG60-480-3Y	PG60-208-3Y	97
Large Panelboard (225 to 400 Amperes)				
Best	PG80-480-3DLL	PG80-480-3Y	PG80-208-3Y	95
Better	PG60-480-3DLL	PG60-480-3Y	PG60-208-3Y	97
Good	PG40-480-3D	PG40-480-3Y	PG40-208-3Y	100
Small Panelboard (60 to 200 Amperes)				
Best	PG60-480-3DLL	PG60-480-3Y	PG60-208-3Y	97
Better	PG40-480-3D	PG40-480-3Y	PG40-208-3Y	100
Good	PG20-480-3D	PG20-480-3Y	PG20-208-3Y	102

Note for the PG 60/80/100 models equivalent models are available in Nema 3R enclosures for outdoor applications (see PG2500, PG3000, PG3500 Series).

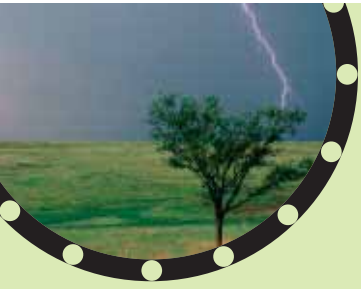
There are four main factors to consider when specifying the appropriate device for your facility:

1. What is the amperage (size) of the Switchboard or Panelboard at the point of installation?
2. What is the geographic location of the facility? (i.e. the relative level of lightning exposure and utility grid switching activity)
3. What is the density of electronic equipment and how critical is the application? (i.e. a 7 x 24 computer data center would require a higher level of protection than a retail store)
4. What is the level of transient and noise producing loads within your facility? (i.e. a heavy industrial manufacturing environment or a densely populated computer data center would require a higher level of protection)

NOTES:

- Pick appropriate model to match the voltage of your Service Entrance, Distribution Panel or Panelboard.
- See individual product pages for other available voltages.
- A facility without any Service Entrance protection would warrant a higher level of protection at downstream locations.

Surge Suppression System



The PG5000 Series is a hardwired surge suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations. Dimensions: 28.66"H x 15.11"W x 8.05"D Weight: 65 lbs.

PG5000 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- 40 kA Brute Force MOVs
- 200 KAIC Surge Rated Fuses
- Fault Current Tested to 200 KAIC
- Easily Replaceable Master Surge Module
- NEMA 3R Style Enclosure
- Redundant Protection per mode
- Safety Interlocked Disconnect
- Thermally Protected MOVs for maximum safety
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- UL1449, 2nd Edition and UL1283 Listed, cULus
- Lugs accept #10 to #2 AWG
- 10 year product warranty
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)

Integral Diagnostics

- LED Indicator Lights
- Form C Contacts
- Intermatic Thermal Monitoring System
- Digital Surge Counter
- Audible Alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG5001-240-2S	120/240 VAC	Single Phase (split)								
	115%	200 kA	200 kA	200 kA	200 kA	400 kA	400 V	400 V	330 V	700 V
PG5001-208-3Y	120/208 VAC	Three Phase Wye								
	115%	200 kA	200 kA	200 kA	200 kA	400 kA	400 V	400 V	330 V	700 V
PG5001-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	200 kA	200 kA	200 kA	200 kA	400 kA	400 V / (700 V)	400 V / (700 V)	330 V	900 V
PG5001-480-3Y	277/480 VAC	Three Phase Wye								
	115%	200 kA	200 kA	200 kA	200 kA	400 kA	800 V	700 V	700 V	1,500 V
PG5001-480-3DLL	480 VAC	Three Phase Delta								
	115%	—	—	—	200 kA	200 kA	—	—	—	1,500 V
PG5001-600-3Y	347/600 VAC	Three Phase Wye								
	115%	200 kA	200 kA	200 kA	200 kA	400 kA	1,000 V	1,000 V	1,000 V	1,800 V
PG5001-600-3D	600 VAC	Three Phase Delta								
	115%	—	200 kA	—	200 kA	400 kA	—	1,500 V	—	1,800 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Surge Suppression System



PG4500 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- 40 kA Brute Force MOVs
- 200 KAIC Surge Rated Fuses
- Fault Current Tested to 200 KAIC
- Easily Replaceable Master Surge Module
- NEMA 3R Style Enclosure
- Redundant Protection per mode
- Safety Interlocked Disconnect
- Thermally Protected MOVs for maximum safety
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- UL1449, 2nd Edition and UL1283 Listed, cULus
- Lugs accept #10 to #2 AWG
- 10 year product warranty
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)

Integral Diagnostics

- LED Indicator Lights
- Form C Contacts
- Intermatic Thermal Monitoring System
- Digital Surge Counter
- Audible Alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG4501-240-2S	120/240 VAC	Single Phase (split)								
	115%	150 kA	150 kA	150 kA	150 kA	300 kA	400 V	400 V	330 V	700 V
PG4501-208-3Y	120/208 VAC	Three Phase Wye								
	115%	150 kA	150 kA	150 kA	150 kA	300 kA	400 V	400 V	330 V	700 V
PG4501-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	150 kA	150 kA	150 kA	150 kA	300 kA	400 V / (700 V)	400 V / (700 V)	330 V	900 V
PG4501-480-3Y	277/480 VAC	Three Phase Wye								
	115%	150 kA	150 kA	150 kA	150 kA	300 kA	800 V	700 V	700 V	1,500 V
PG4501-480-3DLL	480 VAC	Three Phase Delta								
	115%	—	—	—	150 kA	150 kA	—	—	—	1,500 V
PG4501-600-3Y	347/600 VAC	Three Phase Wye								
	115%	150 kA	150 kA	150 kA	150 kA	300 kA	1,000 V	1,000 V	1,000 V	1,800 V
PG4501-600-3D	600 VAC	Three Phase Delta								
	115%	—	150 kA	—	150 kA	300 kA	—	1,500 V	—	1,800 V

NOTES:

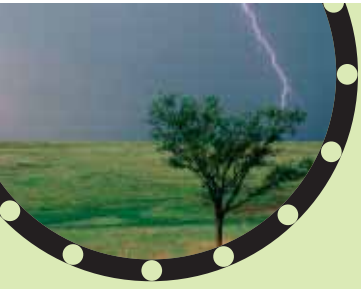
¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.
² All surge currents listed above are independently tested and verified per NEMA LS-1.
³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

300 kA PER PHASE



The PG4500 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations. Dimensions: 28.66"H x 15.11"W x 8.05"D Weight: 65 lbs.

Surge Suppression System



**250 kA
PER
PHASE**

The PG4000 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.
Dimensions:
 28.66"H x 15.11"W x 8.05"D
Weight: 65 lbs.

PG4000 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- 40 kA Brute Force MOVs
- 200 KAIC Surge Rated Fuses
- Fault Current Tested to 200 KAIC
- Easily Replaceable Master Surge Module
- NEMA 3R Style Enclosure
- Redundant Protection per mode
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)
- Safety Interlocked Disconnect
- Thermally Protected MOVs for maximum safety
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- UL1449, 2nd Edition and UL1283 Listed, cULus
- Lugs accept #10 to #2 AWG
- 10 year product warranty
- Redundant Protection per mode

Integral Diagnostics

- LED Indicator Lights
- Form C Contacts
- Intermatic Thermal Monitoring System
- Digital Surge Counter
- Audible Alarm

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴				
	MCOV ¹	L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G	L-L
PG4001-240-2S	120/240 VAC	Single Phase (split)									
	115%	125 kA	125 kA	125 kA	125 kA	250 kA	400 V	400 V	330 V	700 V	
PG4001-208-3Y	120/208 VAC	Three Phase Wye									
	115%	125 kA	125 kA	125 kA	125 kA	250 kA	400 V	400 V	330 V	700 V	
PG4001-240-3HLD	120/240 VAC	Three Phase High Leg Delta									
	115%	125 kA	125 kA	125 kA	125 kA	250 kA	400 V / (700 V)	400 V / (700 V)	330 V	900 V	
PG4001-480-3Y	277/480 VAC	Three Phase Wye									
	115%	125 kA	125 kA	125 kA	125 kA	250 kA	800 V	700 V	700 V	1,500 V	
PG4001-480-3DLL	480 VAC	Three Phase Delta									
	115%	—	—	—	125 kA	125 kA	—	—	—	1,500 V	
PG4001-600-3Y	347/600 VAC	Three Phase Wye									
	115%	125 kA	125 kA	125 kA	125 kA	250 kA	1,000 V	1,000 V	1,000 V	1,800 V	
PG4001-600-3D	600 VAC	Three Phase Delta									
	115%	—	125 kA	—	125 kA	250 kA	—	1,500 V	—	1,800 V	

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Surge Suppression System



PG100 Series

Features

- Panel Extension design for mounting above or below 20" wide panel
- Available wiring space on each side for branch circuit or main input conductors
- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode, replaceable master module
- Integral 200 KAIC fusing and thermal protection
- Fault Current Tested to 200 KAIC
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)
- UL1449, 2nd Edition and UL1283 Listed, cULus
- NEMA 12 Style Enclosure
- Lugs accept #10 to #2 AWG
- Available with flush mount cover PG1-FMP
- 10 year product warranty
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz

Integral Diagnostics

- LED Indicator Lights for each mode
- Form C Contacts
- Audible Alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG100-240-2S	120/240 VAC	Single Phase (split)								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	330 V	330 V	330 V	600 V
PG100-208-3Y	120/208 VAC	Three Phase Wye								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	330 V	330 V	330 V	600 V
PG100-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	330 V (600 V)	330 V (700 V)	330 V	900 V
PG100-480-3Y	277/480 VAC	Three Phase Wye								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	800 V	800 V	700 V	1,500 V
PG100-480-3DLL	480 VAC	Three Phase Delta								
	115%	—	—	—	100 kA	100 kA	—	—	—	1,200 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



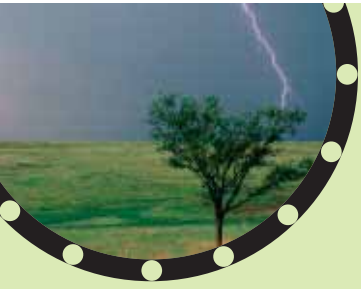
The PG100 Series is a hard wired suppression device installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions:
16.0" H x 20.0" W x 6.0" D
Weight: 40 lbs



Flush Mount Plate PG1-FMP

Surge Suppression System



PG3500 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- 40 kA Brute Force MOVs
- 200 KAIC Surge Rated Fuses
- Fault Current Tested to 200 KAIC
- Easily Replaceable Master Surge Module
- NEMA 3R Style Enclosure
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)
- Redundant Protection per mode
- Thermally Protected MOVs for maximum safety
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- UL1449, 2nd Edition and UL1283 Listed, cULus
- Lugs accept #10 to #2 AWG
- 10 year product warranty

Integral Diagnostics

- LED Indicator Lights
- Audible Alarm
- Intermatic Thermal Monitoring System
- Form C Contacts

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG3500-240-2S	120/240 VAC	Single Phase (split)								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	400 V	400 V	330 V	700 V
PG3500-208-3Y	120/208 VAC	Three Phase Wye								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	400 V	400 V	330 V	700 V
PG3500-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	400 V / (700 V)	400 V / (700 V)	330 V	900 V
PG3500-480-3Y	277/480 VAC	Three Phase Wye								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	800 V	700 V	700 V	1,500 V
PG3500-480-3DLL	480 VAC	Three Phase Delta								
	115%	—	—	—	100 kA	100 kA	—	—	—	1,500 V
PG3500-600-3Y	347/600 VAC	Three Phase Wye								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	1,000 V	1,000 V	1,000 V	1,800 V
PG3500-600-3D	600 VAC	Three Phase Delta								
	115%	—	100 kA	—	100 kA	200 kA	—	1,500 V	—	1,800 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

The PG3500 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.
Dimensions:
 28.66"H x 15.11"W x 8.05"D
Weight: 60 lbs.

Surge Suppression System



PG80 Series

Features

- Panel Extension design for mounting above or below 20" wide panel
- Available wiring space on each side for branch circuit or main input conductors
- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode, replaceable master module
- Integral 200 KAIC fusing and thermal protection
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)
- UL1449, 2nd Edition and UL1283 Listed, cULus
- NEMA 12 Style Enclosure
- Lugs accept #10 to #2 AWG
- Available with flush mount cover PG1-FMP
- 10 year product warranty
- Fault Current Tested to 200 KAIC

Integral Diagnostics

- LED Indicator Lights for each mode
- Form C Contacts
- Audible Alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG80-240-2S	120/240 VAC	Single Phase (split)								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	330 V	330 V	330 V	600 V
PG80-208-3Y	120/208 VAC	Three Phase Wye								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	330 V	330 V	330 V	600 V
PG80-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	330 V (600 V)	330 V (700 V)	330 V	900 V
PG80-480-3Y	277/480 VAC	Three Phase Wye								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	800 V	800 V	700 V	1500 V
PG80-480-3DLL	480 VAC	Three Phase Delta								
	115%	—	80 kA	—	80 kA	80 kA	—	—	—	1,200 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.
² All surge currents listed above are independently tested and verified per NEMA LS-1.
³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

**160 kA
PER
PHASE**

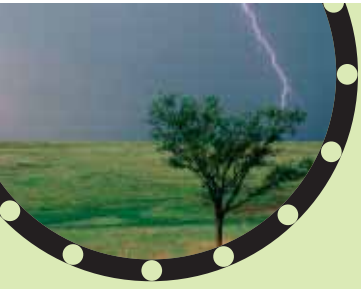


The PG80 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations. Dimensions: 16.0"H x 20.0"W x 6.0"D Weight: 40 lbs.



Flush Mount Plate PG1-FMP

Surge Suppression System



**160 kA
PER
PHASE**

The PG3000 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations. Dimensions: 28.66"H x 15.11"W x 8.05"D Weight: 60 lbs.

PG3000 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- 40 kA Brute Force MOVs
- Thermally Protected MOVs for maximum safety
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- UL1449, 2nd Edition and UL1283 Listed, cULus
- 10 year product warranty
- Redundant Protection per mode
- 200 KAIC Surge Rated Fuses
- Fault Current Tested to 200 KAIC
- Easily Replaceable Master Surge Module
- NEMA 3R Style Enclosure
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)

Integral Diagnostics

- LED Indicator Lights
- Intermatic Thermal Monitoring System
- Audible Alarm
- Form C Contacts

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
	MCOV ¹	L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG3000-240-2S	120/240 VAC	Single Phase (split)								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	400 V	400 V	330 V	700 V
PG3000-208-3Y	120/208 VAC	Three Phase Wye								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	400 V	400 V	330 V	700 V
PG3000-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	400 V / (700 V)	400 V / (700 V)	330 V	900 V
PG3000-480-3Y	277/480 VAC	Three Phase Wye								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	800 V	700 V	700 V	1,500 V
PG3000-480-3DLL	480 VAC	Three Phase Delta								
	115%	—	—	—	80 kA	80 kA	—	—	—	1,500 V
PG3000-600-3Y	347/600 VAC	Three Phase Wye								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	1,000 V	1,000 V	1,000 V	1,800 V
PG3000-600-3D	600 VAC	Three Phase Delta								
	115%	—	80 kA	—	80 kA	160 kA	—	1,500 V	—	1,800 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Surge Suppression System



PG60 Series

Features

- Panel Extension design for mounting above or below 20" wide panel
- Available wiring space on each side for branch circuit or main input conductors
- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode, replaceable master module
- Integral 200 KAIC fusing and thermal protection
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)
- UL1449, 2nd Edition and UL1283 Listed, cULus
- NEMA 12 Style Enclosure
- Lugs accept #10 to #2 AWG
- Available with flush mount cover PG1-FMP
- 10 year product warranty
- Fault Current Tested to 200 KAIC

Integral Diagnostics

- LED Indicator Lights for each mode
- Form C Contacts
- Audible Alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG60-240-2S	120/240 VAC	Single Phase (split)								
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	330 V	330 V	330 V	600 V
PG60-208-3Y	120/208 VAC	Three Phase Wye								
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	330 V	330 V	330 V	600 V
PG60-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	330 V (600 V)	330 V (700 V)	330 V	900 V
PG60-480-3Y	277/480 VAC	Three Phase Wye								
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	800 V	800 V	700 V	1,500 V
PG60-480-3DLL	480 VAC	Three Phase Delta								
	115%	—	—	—	60 kA	60 kA	—	—	—	1,200 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.
² All surge currents listed above are independently tested and verified per NEMA LS-1.
³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



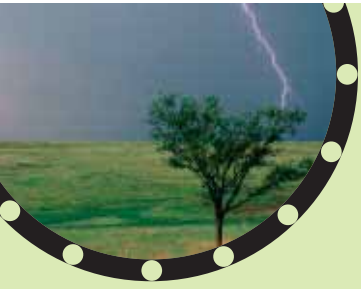
The PG60 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions:
 16.0"H x 20.0"W x 6.0"D
 Weight: 40 lbs.



Flush Mount Plate PG1-FMP

Surge Suppression System



**120 kA
PER
PHASE**

The PG2500 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations. Dimensions: 16.47"H x 10.59"W x 4.9"D Weight: 28 lbs.



Flush Mount Plate IG1FMP-PG

PG2500 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode
- 200 KAIC Surge Rated Fuses
- Thermally Protected MOVs for maximum safety
- Fault Current Tested to 200 KAIC
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- UL1449, 2nd Edition and UL1283 Listed, cULus
- NEMA 3R Style Enclosure
- Pre-wired with 40" of #10 AWG wire leads
- 10 year product warranty

Integral Diagnostics

- LED Indicator Lights for each mode
- Form C Contacts
- Audible Alarm

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
	MCOV ¹ L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
IG2401SECA	120/240 VAC Single-Phase (Split)									
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	400 V	400 V	330 V	600 V
IG2083YECA	120/208 VAC Three Phase Wye									
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	400 V	400 V	330 V	600 V
IG2403DECA	120/240 VAC Three Phase High Leg Delta									
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	400 V / (600 V)	400 V / (700 V)	330 V	700 V
IG4803YECA	277/480 VAC Three Phase Wye									
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	800 V	800 V	400 V	1,500 V
IG4803DECA	480 VAC Three Phase Delta									
	115%	—	120 kA	—	60 kA	180 kA	—	1,500 V	—	1,200 V

NOTES:

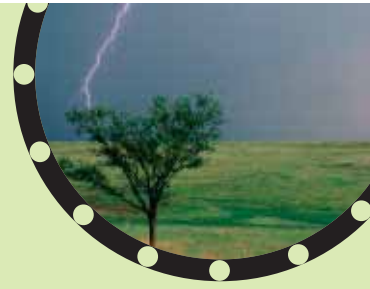
¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Surge Suppression System



PG2000 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode
- 200 KAIC Surge Rated Fuses
- Thermally Protected MOVs for maximum safety
- Fault Current Tested to 200 KAIC
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- UL1449, 2nd Edition and UL1283 Listed, cULus
- NEMA 3R Style Enclosure
- Pre-wired with 40" of #10 AWG wire leads
- 10 year product warranty

Integral Diagnostics

- LED Indicator Lights
- Form C Contacts
- Intermatic Thermal Monitoring System

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴				
	MCOV ¹	L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G	L-L
IG2401ECS	120/240 VAC	Single-Phase (Split)									
	115%	30 kA	30 kA	30 kA	30 kA	30 kA	60 kA	500 V	400 V	400 V	700 V
IG2083ECY	120/208 VAC	Three Phase Wye									
	115%	30 kA	30 kA	30 kA	30 kA	30 kA	60 kA	400 V	500 V	400 V	700 V
IG2403ECD	120/240 VAC	Three Phase High Leg Delta									
	115%	30 kA	30 kA	30 kA	30 kA	30 kA	60 kA	400 V / (700 V)	400 V / (700 V)	330 V	700 V
IG4803ECY	277/480 VAC	Three Phase Wye									
	115%	30 kA	30 kA	30 kA	30 kA	30 kA	60 kA	800 V	800 V	400 V	1,500 V
IG4803ECD	480 VAC	Three Phase Delta									
	115%	—	60 kA	—	30 kA	90 kA	—	1,500 V	—	—	1,500 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

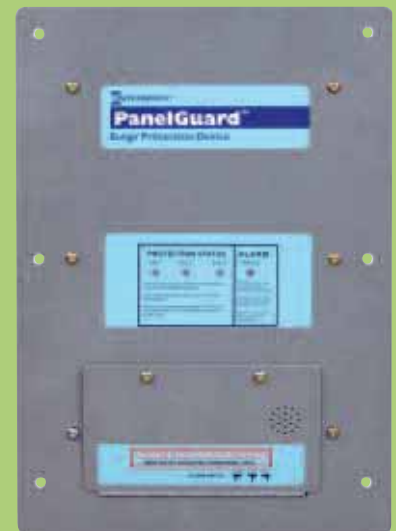
² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

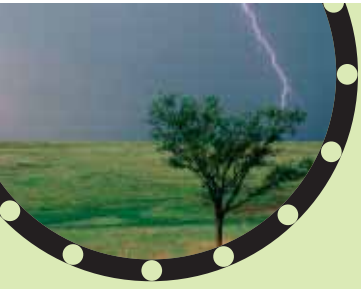


The PG2000 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations. Dimensions: 16.47"H x 10.59"W x 4.9"D Weight: 28 lbs.



Flush Mount Plate IG1FMP-PG

Surge Suppression System



**80 kA
PER
PHASE**

The PG40 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.
Dimensions:
 11.0"H x 5.875"W x 3.75"D
Weight: 22 lbs.



Flush Mount Plate PG2-FMP

PG40 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode
- Integral 200 KAIC fusing and thermal protection
- Thermally protected MOVs for maximum safety
- Fault current tested to 200 KAIC
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- UL1449, 2nd Edition and UL1283 Listed, cULus
- NEMA 4 style enclosure
- Pre-wired with 30" of #10 AWG wire leads
- Available with flush mount cover PG2-FMP
- 10 year product warranty
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)

Integral Diagnostics

- LED indicator lights for each mode
- Form C Contacts
- Audible alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG40-240-2S	120/240 VAC	Single Phase (split)								
	115%	40 kA	40 kA	40 kA	40 kA	80 kA	330 V	330 V	400 V	700 V
PG40-208-3Y	120/208 VAC	Three Phase Wye								
	115%	40 kA	40 kA	40 kA	40 kA	80 kA	330 V	330 V	400 V	700 V
PG40-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	40 kA	40 kA	40 kA	40 kA	80 kA	330 V (600 V)	330 V (600 V)	400 V	900 V
PG40-480-3Y	277/480 VAC	Three Phase Wye								
	115%	40 kA	40 kA	40 kA	40 kA	80 kA	800 V	800 V	800 V	1,500 V
PG40-480-3D	480 VAC	Three Phase Delta								
	115%	—	40 kA	—	40 kA	80 kA	—	1,200 V	—	1,200

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Surge Suppression System



EH Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode
- 200 KAIC Surge Rated Fuses
- Thermally Protected MOVs for maximum safety
- Fault Current Tested to 200 KAIC
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)
- EMI/RFI Filtration – 20 to 30 dB from 20 kHz to 100 MHz
- UL1449, 2nd Edition Listed, cULus
- NEMA 12 Style Enclosure
- Pre-wired with 30" of #10 AWG wire leads
- 10 year product warranty

Integral Diagnostics

- LED Indicator Lights
- Intermatic Thermal Monitoring System

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
IG1201EH	120 VAC	Single Phase									
	115%	26 kA	26 kA	26 kA	—	52 kA	500 V	500 V	500 V	—	
IG2401EH	120/240 VAC	Single Phase (split)									
	115%	26 kA	26 kA	26 kA	26 kA	52 kA	400 V	400 V	400 V	700 V	
IG2083YEH	120/208 VAC	Three Phase Wye									
	115%	26 kA	26 kA	26 kA	26 kA	52 kA	400 V	400 V	400 V	700 V	
IG2403DEH	120/240 VAC	Three Phase High Leg Delta									
	115%	26 kA	26 kA	26 kA	26 kA	52 kA	400 V / (700 V)	400 V / (700 V)	400 V	700 V	
IG4803YEH	277/480 VAC	Three Phase Wye									
	115%	26 kA	26 kA	26 kA	26 kA	52 kA	800 V	800 V	400 V	1,500 V	
IG4803DEH	480 VAC	Three Phase Delta									
	115%	—	52 kA	—	26 kA	78 kA	—	1,200 V	—	1,500 V	

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.
² All surge currents listed above are independently tested and verified per NEMA LS-1.
³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

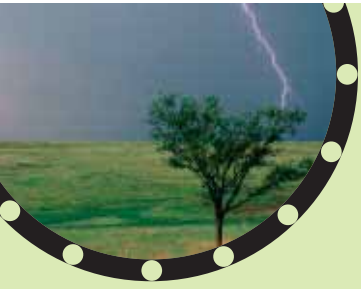


The EH Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.
Dimensions:
 7.5"H x 4.25"W x 4.0"D
Weight: 5.5 lbs.



Flush Mount Plate IG1FMP-H

Surge Suppression System



**40 kA
PER
PHASE**

The PG20 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations. Dimensions: 11.0"H x 5.875"W x 3.75"D Weight: 22 lbs.



Flush Mount Plate PG2-FMP

PG20 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode
- Integral 200 KAIC fusing and thermal protection
- Thermally protected MOVs for maximum safety
- Fault current tested to 200 KAIC
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- UL1449, 2nd Edition and UL1283 Listed, cULus
- NEMA 4 style enclosure
- Pre-wired with 30" of #10 AWG wire leads
- Available with flush mount cover PG2-FMP
- 10 year product warranty
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)

Integral Diagnostics

- LED indicator lights for each mode
- Form C Contacts
- Audible alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG20-240-2S	120/240 VAC	Single Phase (split)								
	115%	20 kA	20 kA	20 kA	20 kA	40 kA	330 V	330 V	400 V	700 V
PG20-208-3Y	120/208 VAC	Three Phase Wye								
	115%	20 kA	20 kA	20 kA	20 kA	40 kA	330 V	330 V	400 V	700 V
PG20-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	20 kA	20 kA	20 kA	20 kA	40 kA	330 V (600 V)	330 V (600 V)	400 V	900 V
PG20-480-3Y	277/480 VAC	Three Phase Wye								
	115%	20 kA	20 kA	20 kA	20 kA	40 kA	800 V	800 V	800 V	1,500 V
PG20-480-3D	480 VAC	Three Phase Delta								
	115%	—	20 kA	—	20 kA	40 kA	—	1,200 V	—	1,200 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Surge Suppression System



LH Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- 200 KAIC Surge Rated Fuses
- Thermally Protected MOVs for maximum safety
- Fault Current Tested to 200 KAIC
- EMI/RFI Filtration – 20 to 30 dB from 20 kHz to 100 MHz
- UL1449, 2nd Edition, cULus
- NEMA 12 Style Enclosure
- Pre-wired with 30" of #10 AWG wire leads
- 10 year product warranty
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)

Integral Diagnostics

- LED Indicator Lights
- Intermatic Thermal Monitoring System

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴				
		L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L	
IG1201LH	120 VAC	Single Phase										
	115%	13 kA	13 kA	13 kA	—	26 kA	500 V	500 V	400 V	—		
IG2401LH	120/240 VAC	Single Phase (split)										
	115%	13 kA	13 kA	13 kA	13 kA	26 kA	400 V	500 V	400 V	700 V		
IG2083LYH	120/208 VAC	Three Phase Wye										
	115%	13 kA	13 kA	13 kA	13 kA	26 kA	500 V	500 V	400 V	700 V		
IG2403LDH	120/240 VAC	Three Phase High Leg Delta										
	115%	13 kA	13 kA	13 kA	13 kA	26 kA	500 V / (700 V)	500 V / (700 V)	500 V	700 V		
IG4803LYH	277/480 VAC	Three Phase Wye										
	115%	13 kA	13 kA	13 kA	13 kA	26 kA	800 V	800 V	500 V	1,500 V		
IG4803LDH	480 VAC	Three Phase Delta										
	115%	—	26 kA	—	13 kA	39 kA	—	1,500 V	—	1,500 V		

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



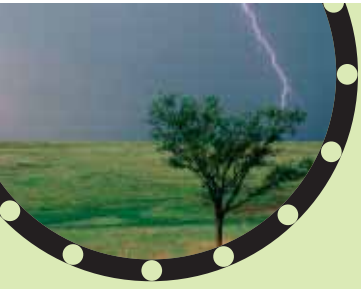
The LH Series is a hardwired surge suppression device (installed in parallel) and recommended for ANSI/IEEE Category locations for A and B.

Dimensions:
7.5"H x 4.25"W x 4.0"D
Weight: 5.5 lbs.



Flush Mount Plate IG1FMP-H

Surge Suppression System



**80 kA
PER
PHASE**

The PG1500 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.
Dimensions:
 11.0"H x 5.875"W x 3.75"D
Weight: 22 lbs.



Flush Mount Plate PG2-FMP

PG1500 Series

Features

- L-N, N-G protection modes (4 mode)
- Redundant protection per mode
- Integral 200 KAIC fusing and thermal protection
- Thermally protected MOVs for maximum safety
- Fault current tested to 200 KAIC
- EMI/RFI filtration – Up to 54 dB from 20 kHz to 100 MHz
- UL1449, 2nd Edition and UL1283 Listed, cULus
- NEMA 4 style enclosure
- Pre-wired with 30" of #10 AWG wire leads
- Available with flush mount cover PG2-FMP
- 10 year product warranty
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)

Integral Diagnostics

- LED indicator lights for each mode
- Form C Contacts
- Audible alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-N	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG1500-240-2S	120/240 VAC	Single Phase (split)								
	115%	80 kA	—	40 kA	80 kA	80 kA	330 V	700 V	400 V	600 V
PG1500-208-3Y	120/208 VAC	Three Phase Wye								
	115%	80 kA	—	40 kA	80 kA	80 kA	330 V	700 V	400 V	600 V
PG1500-480-3Y	277/480 VAC	Three Phase Wye								
	115%	80 kA	—	40 kA	80 kA	80 kA	800 V	1,500 V	800 V	1,500 V
PG1500-480-3D	480 VAC	Three Phase Delta								
	115%	—	80 kA	—	80 kA	160 kA	—	1,200 V	—	1,200 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.
² All surge currents listed above are independently tested and verified per NEMA LS-1.
³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Surge Suppression System



PG1000 Series

Features

- L-N, N-G protection modes (4 mode)
- Redundant protection per mode
- Integral 200 KAIC fusing and thermal protection
- Thermally protected MOVs for maximum safety
- Fault current tested to 200 KAIC
- EMI/RFI filtration – Up to 54 dB from 20 kHz to 100 MHz
- UL1449, 2nd Edition and UL1283 Listed, cULus
- NEMA 4 style enclosure
- Pre-wired with 30" of #10 AWG wire leads
- Available with flush mount cover PG2-FMP
- 10 year product warranty
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)

Integral Diagnostics

- LED indicator lights for each mode
- Form C Contacts
- Audible alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-N	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG1000-240-2S	120/240 VAC	Single Phase (split)								
	115%	40 kA	—	40 kA	40 kA	40 kA	330 V	700 V	400 V	600 V
PG1000-208-3Y	120/208 VAC	Three Phase Wye								
	115%	40 kA	—	40 kA	40 kA	40 kA	330 V	700 V	400 V	600 V
PG1000-480-3Y	277/480 VAC	Three Phase Wye								
	115%	40 kA	—	40 kA	40 kA	40 kA	800 V	1,500 V	800 V	1,500 V
PG1000-480-3D	480 VAC	Three Phase Delta								
	115%	—	40 kA	—	40 kA	80 kA	—	1,200 V	—	1,200 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



The PG1000 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.
Dimensions:
 11.0"H x 5.875"W x 3.75"D
Weight: 22 lbs.



Flush Mount Plate PG2-FMP

There are four main factors to consider when specifying the appropriate device for your facility:

- 1. What is the amperage (size) of the Switchboard or Panelboard at the point of installation?**
- 2. What is the geographic location of the facility?** (i.e. the relative level of lightning exposure and utility grid switching activity)
- 3. What is the density of electronic equipment and how critical is the application?** (i.e. a 7 x 24 computer data center would require a higher level of protection than a retail store)
- 4. What is the level of transient and noise producing loads within your facility?** (i.e. a heavy industrial manufacturing environment or a densely populated computer data center would require a higher level of protection)

NOTES:

- Pick appropriate model to match the voltage of your Service Entrance, Distribution Panel or Panelboard.
- See individual product pages for other available voltages.
- A facility without any Service Entrance protection would warrant a higher level of protection at downstream locations.

Product Selection Chart — Modular Models

The following guidelines can be followed for Intermatic products:

Choose Model by Voltage

Location	480 VAC Delta	277/480 VAC Wye	120/208 VAC Wye	Refer to Page
Large Service Entrance 2000 to 4000 Amp				
Best	SG320K-480-3D	SG320K-480-3Y	SG320K-208-3Y	107
Better	SG240K-480-3D	SG240K-480-3Y	SG240K-208-3Y	108
Good	UG40A4803D	UG40A4803Y	UG40A2083Y	110
Small Service Entrance Less than 1600 Amp				
Best	SG240K-480-3D	SG240K-480-3Y	SG240K-208-3Y	108
Better	SG160K-480-3D	SG160K-480-3Y	SG160K-208-3Y	109
Good	UG30A4803D	UG30A4803Y	UG30A2083Y	111
Distribution Panel 1000 to 1600 Amp				
Best	SG160K-480-3D	SG160K-480-3Y	SG160K-208-3Y	109
Better	UG30A4803D	UG30A4803Y	UG30A2083Y	111
Good	UG28A4803D	UG28A4803Y	UG28A2083Y	112
Panelboard 60 to 400 Amp				
Best	UG30A4803D	UG30A4803Y	UG30A2083Y	111
Better	UG28A4803D	UG28A4803Y	UG28A2083Y	112

Modular Protection System



SG320 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Fault Current Tested to 200 KAIC
- EMI/RFI Filtration – Up to 50 dB from 20 kHz to 100 MHz
- Replaceable Modules for low MTTR
- NEMA 12 Enclosure
- 40 kA Brute Force MOVs
- Redundant Protection per mode
- Thermally Protected MOVs for maximum safety
- UL1449, 2nd Edition and UL1283 Listed, UL and cUL
- 5 year product warranty

Installation:

- Recommended installation is with 30-100 Amp breaker

Integral Diagnostics

- LED Indicator Lights
- Audible Alarm
- Form C Contacts
- Digital Surge Counter

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode)					Per Phase ²	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ³			
	MCOV ¹ L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
SG320K-208-3Y	120/208 VAC Three Phase Wye									
	115%	160 kA	160 kA	120 kA	160 kA	320 kA	400 V	400 V	700 V	800 V
SG320K-240-3HLD	120/240 VAC Three Phase High Leg Delta									
	115%	160 kA	160 kA	120 kA	160 kA	320 kA	400 V / (800 V)	400 V / (800 V)	700 V	800 V
SG320K-480-3Y	277/480 VAC Three Phase Wye									
	115%	160 kA	160 kA	120 kA	160 kA	320 kA	800 V	800 V	1,500 V	1,500 V
SG320K-480-3D	480 VAC Three Phase Delta									
	115%	—	160 kA	—	160 kA	320 kA	—	1,500 V	—	2,500 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percent of nominal voltage.
² Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
³ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

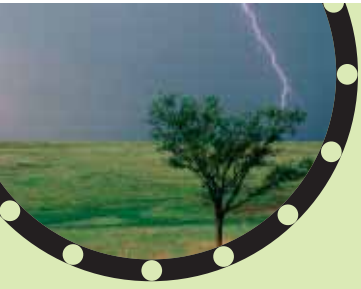


The SG320 Series is a modular hardwired suppression device and recommended for all ANSI/IEEE Category locations. Contains one bolt-on module per phase for easy maintenance.
Dimensions: 16"H x 14"W x 6"D
Weight: 29 lbs.

REPLACEMENT MODULE INFORMATION

System Number:	Quantity & Part Number
SG320K-208-3Y	(3) SG160-120V-M
SG320K-240-3HLD	(2) SG160-120V-M
	(1) SG160-240V-M
SG320K-480-34	(3) SG160-277V-M
SG320K-480-3D	(3) SG160-480V-M

Modular Protection System



The SG240 Series is a modular hardwired suppression device and recommended for all ANSI/IEEE Category locations. Contains one bolt-on module per phase for easy maintenance.

Dimensions:
16"H x 14"W x 6"D
Weight: 28 lbs.

REPLACEMENT MODULE INFORMATION

System Number:	Quantity & Part Number
SG240K-208-3Y	(3) SG120-120V-M
SG240K-240-3HLD	(2) SG120-120V-M (1) SG120-240V-M
SG240K-480-3A	(3) SG120-277V-M
SG240K-480-3D	(3) SG120-480V-M

SG240 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Fault Current Tested to 200 KAIC
- EMI/RFI Filtration – Up to 50 dB from 20 kHz to 100 MHz
- Replaceable Modules for low MTTR
- NEMA 12 Enclosure
- 40 kA Brute Force MOVs
- Redundant Protection per mode
- Thermally Protected MOVs for maximum safety
- UL1449, 2nd Edition and UL1283 Listed, UL and cUL
- 5 year product warranty

Installation:

- Recommended installation is with 30-100 Amp breaker

Integral Diagnostics

- LED Indicator Lights
- Audible Alarm
- Form C Contacts
- Digital Surge Counter

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode)				Per Phase ²	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ³			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
SG240K-208-3Y	120/208 VAC	Three Phase Wye								
	115%	120 kA	120 kA	120 kA	120 kA	240 kA	400 V	400 V	700 V	800 V
SG240K-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	120 kA	120 kA	120 kA	120 kA	240 kA	400 V / (800 V)	400 V / (800 V)	700 V	800 V
SG240K-480-3Y	277/480 VAC	Three Phase Wye								
	115%	120 kA	120 kA	120 kA	120 kA	240 kA	800 V	800 V	1,500 V	1,500 V
SG240K-480-3D	480 VAC	Three Phase Delta								
	115%	—	120 kA	—	120 kA	240 kA	—	1,500 V	—	2,500 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percent of nominal voltage.

² Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

³ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Modular Protection System



SG160 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Fault Current Tested to 200 KAIC
- EMI/RFI Filtration – Up to 50 dB from 20 kHz to 100 MHz
- Replaceable Modules for low MTTR
- NEMA 12 Enclosure
- 40 kA Brute Force MOVs
- Redundant Protection per mode
- Thermally Protected MOVs for maximum safety
- UL1449, 2nd Edition and UL1283 Listed, UL and cUL
- 5 year product warranty

Installation:

- Recommended installation is with 30-100 Amp breaker

Integral Diagnostics

- LED Indicator Lights
- Form C Contacts
- Audible Alarm
- Digital Surge Counter

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode)				Per Phase ²	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ³			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
SG160K-208-3Y	120/208 VAC	Three Phase Wye								
	115%	80 kA	80 kA	120 kA	80 kA	160 kA	400 V	400 V	700 V	800 V
SG160K-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	80 kA	80 kA	120 kA	80 kA	160 kA	400 V / (800 V)	400 V / (800 V)	700 V	800 V
SG160K-480-3Y	277/480 VAC	Three Phase Wye								
	115%	80 kA	80 kA	120 kA	80 kA	160 kA	800 V	800 V	1,500 V	1,500 V
SG160K-480-3D	480 VAC	Three Phase Delta								
	115%	—	80 kA	—	80 kA	160 kA	—	1,500 V	—	2,500 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percent of nominal voltage.
² Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
³ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



The SG160 Series is a modular hardwired suppression device and recommended for all ANSI/IEEE Category locations. Contains one bolt-on module per phase for easy maintenance.
Dimensions: 16"H x 14"W x 6"D
Weight: 27 lbs.

REPLACEMENT MODULE INFORMATION

System Number:	Quantity & Part Number
SG160K-208-3Y	(3) SG80-120V-M
SG160K-240-3HLD	(2) SG80-120V-M
	(1) SG80-240V-M
SG160K-480-34	(3) SG80-277V-M
SG160K-480-3D	(3) SG80-480V-M

Modular Protection System

**90 kA
PER
PHASE**



The UG40 Series is a modular hardwired suppression device and recommended for all ANSI/IEEE Category locations. Contains one module per phase for easy maintenance.

Dimensions:
20.75"H x 10.75"W x 4.75"D
Weight: 23 lbs.

REPLACEMENT MODULE INFORMATION

System Number:	Quantity & Part Number
UG40A2401S	(2) UG41120A
UG40A2083Y	(3) UG41120B
UG40A2403D	(2) UG41120A (1) UG41208A
UG40A2403G	(3) UG41240A
UG40A4803Y	(3) UG41277A
UG40A4803D	(3) UG41480A

UG40 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Integral Disconnect
- Redundant Protection per mode
- Thermally Protected MOVs for maximum safety
- UL1449, 2nd Edition, cULus
- 10 year product warranty
- Fault Current Tested to 200 KAIC
- 200 KAIC Surge Rated Fuses
- EMI/RFI Filtration – 20 to 30 dB from 20 kHz to 100 MHz
- Replaceable Modules for low MTTR
- NEMA 3R Style Enclosure
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)

Integral Diagnostics

- LED Indicator Lights
- Audible Alarm
- Intermatic Thermal Monitoring System
- Form C Contacts

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode)					Per Phase ²	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ³			
	MCOV ¹ L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
UG40A2401S	120/240VAC Single Phase (split)									
	115%	45 kA	45 kA	90 kA	45 kA	90 kA	500 V	500 V	500 V	800 V
UG40A2083Y	120/208 VAC Three Phase Wye									
	115%	45 kA	45 kA	135 kA	45 kA	90 kA	500 V	500 V	500 V	700 V
UG40A2403D	120/240 VAC Three Phase High Leg Delta									
	115%	45 kA	45 kA	135 kA	45 kA	90 kA	500 V / (800 V)	500 V / (700 V)	500 V	800 V
UG40A2403G	240 VAC Three Phase Delta									
	115%	—	90 kA	—	45 kA	125 kA	—	700 V	—	800 V
UG40A4803Y	277/480 VAC Three Phase Wye									
	115%	45 kA	45 kA	135 kA	45 kA	90 kA	900 V	900 V	800 V	1,500 V
UG40A4803D	480 VAC Three Phase Delta									
	115%	—	90 kA	—	45 kA	135 kA	—	1,500 V	—	1,500 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percent of nominal voltage.

² Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

³ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Modular Protection System



UG30 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Fault Current Tested to 200 KAIC
- 200 KAIC Surge Rated Fuses
- Redundant Protection per mode
- EMI/RFI Filtration – 20 to 30 dB from 20 kHz to 100 MHz
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)
- Thermally Protected MOVs for maximum safety
- Replaceable Modules for low MTTR
- UL1449, 2nd Edition, cULus
- NEMA 3R Style Enclosure
- 10 year product warranty

Integral Diagnostics

- LED Indicator Lights
- Intermatic Thermal Monitoring System

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode)					Per Phase ²	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ³			
	MCOV ¹	L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
UG30A2401S	120/240 VAC	Single Phase (split)								
	115%	45 kA	45 kA	90 kA	45 kA	90 kA	500 V	500 V	400 V	700 V
UG30A2083Y	120/208 VAC	Three Phase Wye								
	115%	45 kA	45 kA	135 kA	45 kA	90 kA	500 V	500 V	400 V	700 V
UG30A2403D	120/240 VAC	Three Phase High Leg Delta								
	115%	45 kA	45 kA	135 kA	45 kA	90 kA	500 V / (700 V)	500 V / (700 V)	400 V	700 V
UG30A2403G	240 VAC	Three Phase Delta								
	115%	—	90 kA	—	45 kA	135 kA	—	700 V	—	700 V
UG30A4803Y	277/480 VAC	Three Phase Wye								
	115%	45 kA	45 kA	135 kA	45 kA	90 kA	800 V	800 V	800 V	1,500 V
UG30A4803D	480 VAC	Three Phase Delta								
	115%	—	90 kA	—	45 kA	135 kA	—	1,500 V	—	1,500 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percent of nominal voltage.
² Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
³ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



The UG30 Series is a modular hardwired suppression device and recommended for all ANSI/IEEE Category locations. Contains one module per phase for easy maintenance.
Dimensions:
 12.88"H x 10.94"W x 4.65"D
Weight: 15 lbs.

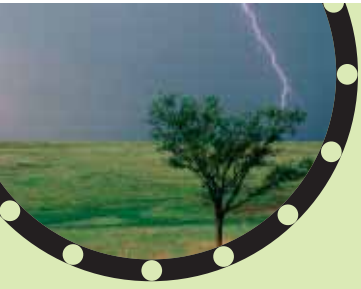


Flush Mount Plate UG1-FMP

REPLACEMENT MODULE INFORMATION

System Number:	Quantity & Part Number
UG30A2401S	(2) UG29120A
UG30A2083Y	(3) UG29120A
UG30A2403D	(2) UG29120A
	(1) UG29208A
UG30A2403G	(3) UG29240A
UG30A4803Y	(3) UG29277A
UG30A4803D	(3) UG29480A

Modular Protection System



The UG28 Series is a modular hardwired suppression device and recommended for all ANSI/IEEE Category locations. Contains one module per phase for easy maintenance.
Dimensions:
 12.88"H x 10.94"W x 4.65"D
Weight: 15 lbs.



Flush Mount Plate UG1-FMP

REPLACEMENT MODULE INFORMATION

System Number:	Quantity & Part Number
UG28A2401S	(2) UG27120A
UG28A2083Y	(3) UG27120A
UG28A2403D	(2) UG27120A (1) UG27208A
UG28A4803Y	(3) UG27277A
UG28A4803D	(3) UG27480A

UG28 Series

Features

- Nine mode Protection (L-N, L-G, L-L)
- Fault Current Tested to 200 KAIC
- 200 KAIC Surge Rated Fuses
- Redundant Protection per mode
- EMI/RFI Filtration – 20 to 30 dB from 20 kHz to 100 MHz
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)
- Thermally Protected MOVs for maximum safety
- Replaceable Modules for low MTTR
- UL1449, 2nd Edition, cULus
- NEMA 3R Style Enclosure
- 10 year product warranty

Integral Diagnostics

- LED Indicator Lights
- Intermatic Thermal Monitoring System

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode)					Per Phase ²	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ³			
	MCOV ¹ L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
UG28A2401S	120/240 VAC Single Phase (split)									
	115%	45 kA	45 kA	—	45 kA	90 kA	500 V	500 V	—	700 V
UG28A2083Y	120/208 VAC Three Phase Wye									
	115%	45 kA	45 kA	—	45 kA	90 kA	500 V	500 V	—	700 V
UG28A2403D	120/240 VAC Three Phase High Leg Delta									
	115%	45 kA	45 kA	—	45 kA	90 kA	500 V / (700 V)	500 V / (700 V)	—	700 V
UG28A4803Y	277/480 VAC Three Phase Wye									
	115%	45 kA	45 kA	—	45 kA	90 kA	800 V	800 V	—	1,500 V
UG28A4803D	480 VAC Three Phase Delta									
	115%	—	90 kA	—	45 kA	135 kA	—	1,500 V	—	1,500 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percent of nominal voltage.

² Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

³ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Industrial Point-of-Use Protection



F20 Series

Features

- All mode Protection
- Thermally Protected MOVs for maximum safety
- UL1449, 2nd Edition and UL1283 Listed, cULus
- NEMA 4 Enclosure
- EMI/RFI Filtration – 26 to 39 dB
- 5 year product warranty

Integral Diagnostics

- LED Indicator Lights
- Intermatic Thermal Monitoring System
- Form C Contacts

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode)					Per Phase ²	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ³				
	MCOV ¹	L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G	L-L
IG1201F20	120 VAC	Single Phase									
	115%	16 kA	16 kA	16 kA	—	32 kA	500 V	500 V	500 V	—	
IG2401F20	240 VAC	Single Phase									
	115%	—	32 kA	—	16 kA	48 kA	—	700 V	—	700 V	

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percent of nominal voltage.
² Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
³ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

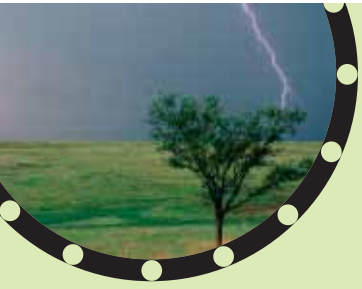


The F20 Series is a hardwired in line suppression device for protection of loads up to 20 Amps including fire alarm circuits, industrial controls, PLC's and any other sensitive electronic equipment.
Dimensions:
 4.54"H x 3.5"W x 2.2"D
Weight: 2.5 lbs.



Din Rail Adapter Kit IG1DIN-F20

Industrial Point-of-Use Protection



Features

- Designed for heavy industrial use
- 3-mode Surge Protection (L-N, L-G, N-G)
- UL1449, 2nd Edition, cULus
- EMI/RFI noise filtration

A. IG11246

- 4-outlets
- 6 ft. cord
- Lighted On/Off switch

B. IG11466

- 6-outlets
- 6 ft. cord
- Lighted On/Off switch
- Enhanced EMI/RFI noise filtration, UL1283

C. IG11266

- 6-outlets
- 6 ft. cord
- Lighted On/Off switch

D. IG11266BLK10

- Black
- 6-outlets
- 10 ft. cord
- Lighted On/Off switch

E. IG2066 & IG20615

- 6 specification-grade outlets
- Master On/Off switch
- Enhanced EMI/RFI noise filtration, UL1283
- 6 ft. cord (IG2066); 15 ft. cord (IG20615)

See chart on page 115 for UL1449 ratings and EMI/RFI filtration.

Computer Control Centers

Features

- 6 centralized switches
- One unswitched receptacle
- Metal housing
- Static discharge pad
- 15 Amp, resettable circuit breaker

J. IG141

- Standard model

K. IG141T

- Standard model with phone/fax/modem protection
- RJ11 connectors

- 14 gauge SJT power cord with molded plug
- Protection monitoring circuitry with LED light indicator
- 15 amp resettable breaker
- Ivory metal housing

F. IG1866A

- 6-outlets
- 6 ft. cord
- Audible alarm
- Master On/Off switch
- Enhanced EMI/RFI noise filtration, UL1283

G. IG20B12 & IG2012B15

- 6 specification-grade outlets
- Master On/Off switch
- Enhanced EMI/RFI noise filtration, UL1283
- 6 ft. cord (IG20B12); 15 ft. cord (IG2012B15)

H. IG2086

- 8 specification-grade outlets
- Master On/Off switch
- Enhanced EMI/RFI noise filtration, UL1283
- 6 ft. cord

I. IG9638S55

- 6 specification-grade outlets
- Lighted On/Off switch
- Steel housing
- 15 ft. cord

L. IG143

- Enhanced EMI/RFI noise attenuation
- Dual choke design for lower clamping

M. IG143T

- Enhanced model with phone/fax/modem protection
- RJ11 connectors

Industrial Point-of-Use Protection



Mounting Bracket & Plate

N. IG1SRMP

- Allows any IG strip to be mounted on a 19" equipment rack

O. 24EG5133

- Secures mounting bracket for all IG strips in extruded aluminum alloy housing (See models on chart with *)

Product Selection Chart – Point of Use Models

Intermatic Model	Number of Outlets	Cord Length	Electrical Rating	Energy Capacity			Connected Equipment \$ Coverage	UL1449 Clamping Voltage (SVR) 6 kV, 500A (8 x 20 μ sec)	EMI-RFI Noise Filtration		Prod. Warr. (yrs)
				Max. Joule. Rating	Max. Surge Amperage	Max. Frequency Range (Hz)			Max. Reduc. (dB)		
Industrial Grade								L-N/L-G/N-G			
IG11246*	4	6	120 V/15 A	480	24,000 A	\$10,000	400/400/400	100k-20M	25dB	5	
IG11266*	6	6	120 V/15 A	480	24,000 A	\$10,000	400/400/400	100k-20M	25dB	5	
IG11266BLK10*	6	10	120 V/15 A	480	24,000 A	\$10,000	400/400/400	100k-20M	25dB	5	
IG11466*	6	6	120 V/15 A	480	24,000 A	\$10,000	400/400/400	100k-20M	40dB	5	
IG1866A*	6	6	120 V/15 A	960	48,000 A	\$25,000	330/330/330	100k-100M	62dB	5	
IG2066*	6	6	120 V/15 A	960	48,000 A	\$25,000	330/330/330	100k-100M	62dB	5	
IG20615*	6	15	120 V/15 A	960	48,000 A	\$25,000	330/330/330	100k-100M	62dB	5	
IG20B12*	6	6	120 V/15 A	480	24,000 A	\$ 5,000	400/400/400	100k-20M	25dB	5	
IG2012B15*	6	15	120 V/15 A	480	24,000 A	\$ 5,000	400/400/400	100k-20M	25dB	5	
IG9638S55	6	15	120 V/15 A	480	24,000 A	—	400/400/400	100k-20M	21dB	5	
IG2086*	8	6	120 V/15 A	960	48,000 A	\$25,000	330/330/330	100k-100M	62dB	5	
Computer Control Centers											
IG141	6	9	120 V/15 A	480	24,000 A	\$10,000	400/400/400	100k-20M	25dB	5	
IG141T	6	9	120 V/15 A	480	24,000 A	\$10,000	400/400/400	100k-20M	25dB	5	
IG143	6	9	120 V/15 A	960	48,000 A	\$25,000	330/330/330	100k-100M	62dB	5	
IG143T	6	9	120 V/15 A	960	48,000 A	\$25,000	330/330/330	100k-100M	62dB	5	

* = Extruded aluminum housing

NOTE: Cord lengths can be modified up to 25 feet. Consult Factory for pricing and availability.

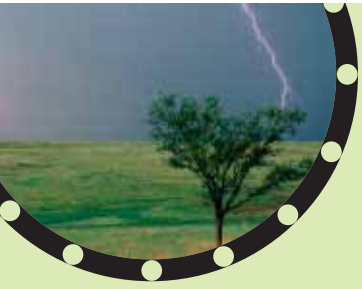


N



O

Residential Hardwired Protection



IG Series

Features

- Hardwired models provide greater capacity to handle surge energy (based on their close location to the service ground) compared to standard plug-in strips
- Designed for 120/240 volt single or (split-phase) panels
- Dual LED indicator(s) provides surge protection status on AC

A. IG1300-2T-1C

- 120/240 VAC Single (Split) Phase
- 6 Modes of Surge Protection (L1-N, L2-N, L1-G, L2-G, N-G, L1-L2)
- Provides protection for 2 Telephone Lines (Analog Phone Line, Modem, or DSL) and 1 Coax Line (Cable TV, Cable Internet or Satellite TV)
- UL 1449 Listed, 2nd Edition and UL497A Listed, cULus
- NEMA 3R Raintight Enclosure for indoor or outdoor installations (9.38"H x 5.25"W x 4.0"D)
- Tested to 65 kAIC per NEC Section 285
- 5 Year Product Warranty
- \$10,000 Connected Equipment Coverage
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)



B. IG1300-4T-2C

- 120/240 VAC Single (Split) Phase
- 6 Modes of Surge Protection (L1-N, L2-N, L1-G, L2-G, N-G, L1-L2)
- Provides protection for 4 Telephone Lines (Analog Phone Line, Modem, or DSL) and 2 Coax Lines (Cable TV, Cable Internet or Satellite TV)
- UL 1449 Listed, 2nd Edition and UL497A Listed, cULus
- NEMA 3R Raintight Enclosure for indoor or outdoor installations (9.38"H x 5.25"W x 4.0"D)
- Tested to 65 kAIC per NEC Section 285
- 5 Year Product Warranty
- \$10,000 Connected Equipment Warranty (Appliances and Electronics) [5 year]
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)



C. IG1240RC

- 120/240 VAC Single (Split) phase
- 6 Modes of Surge Protection (L1-N, L2-N, L1-G, L2-G, N-G, L1-L2)
- Green LED indicator provides status of protection; Red LED indicator indicates reduced protection
- NEMA 4 plastic housing (5.65"H x 4.18"W x 3.33"D)
- 5 year product warranty
- UL Listed UL1449, 2nd edition, cULus
- Tested to 65 kAIC per NEC Section 285
- \$10,000 Connected Equipment Coverage (Appliances and Electronics) [5 year]
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)



IG1240FMP3

- Includes faceplate, screws and mounting bracket for IG1240RC



D. IG3240RC

- 120/240 VAC Single (Split) phase
- 6 Modes of Protection (L1-N, L2-N, L1-G, L2-G, N-G, L1-L2)
- Green LED indicator provides status of protection; Red LED indicator indicates reduced protection
- NEMA 4 metal housing (6.28"H x 4.4"W x 3.25"D)
- 10 year product warranty
- UL Listed UL1449, 2nd edition, cULus
- Tested to 65 kAIC per NEC Section 285
- \$25,000 Connected Equipment Coverage (Appliances and Electronics) [5 year]
- Complementary Listed as Secondary Surge Arrester (OWHX,E135626)

IG3240FMP3

- Includes faceplate, screws and mounting bracket for IG3240RC



Flush Mount Plates
IG1240FMP3

IG3240FMP3

Residential Hardwired Protection



E. IG251

- Handles up to 600 Amp service capacity
- Enclosure size (6.0"H x 3.5"W x 3.0"D)
- Epoxy encapsulation protects surge components from moisture, dirt and corrosion
- 5 year product warranty
- UL 1449 2nd edition listed as a Transient Voltage Surge Suppressor
- 250 Volt MCOV for generator applications

Intermatic Model	Service Voltage	Phase	# - Length	Gauge	Wire Config.	Peak Surge Current Per Phase/System	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 μ sec) L-N L-G N-G L-L
IG1300-2T-1C	120/240	2	4 24	14	L1, L2, N, GND	20 kA/60 kA	400 400 400 700
IG1300-4T-2C	120/240	2	4 24	14	L1, L2, N, GND	20 kA/60 kA	400 400 400 700
IG1240RC	120/240	2	4 30	14	L1, L2, N, GND	20 kA/60 kA	400 400 400 700
IG3240RC	120/240	2	4 30	14	L1, L2, N, GND	60 kA/180 kA	330 330 330 600
IG251	120/240	2	4 24	12	L1, L2, N, GND	48 kA/115 kA	600 — — 1200

E



Stand Alone Telephone / Modem / DSL Internet Lines

F. IG2TM

- Provides protection for 2 lines
- Tip to Ground, Tip to Ring and Ring to Ground Modes
- 40 kA surge protection per line
- Gas Tube Protection 350 Volt DC Breakdown
- UL497A
- Nema 1 Type Enclosure

Model Number	Application	Lines	Gauge	Wire Configuration	DC Breakdown Voltage	Application
IG2TM	phone/modem/DSL	up to 2	#24-#16 AWG	4 wire	350 Vdc	Indoor

F



G. IG4TM

- Protection same as IG2TM
- Protects 4 Lines

Model Number	Application	Lines	Gauge	Wire Configuration	DC Breakdown Voltage	Application
IG4TM	phone/modem/DSL	up to 4	#24-#16 AWG	8 wire	350 Vdc	Indoor

G



H. IG2T3R

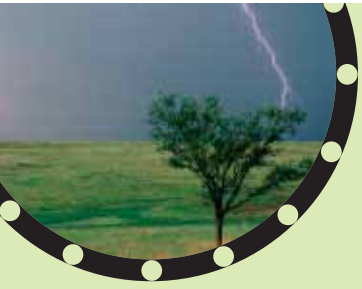
- Protection same as IG2TM
- Provides protection for 2 lines (expandable to 12 Lines)
- Nema 3R Type Enclosure

Model Number	Application	Lines	Gauge	Wire Configuration	DC Breakdown Voltage	Application
IG2T3R	phone/modem/DSL	2 standard (up to 12)	#24-#16 AWG	4 wire (up to 24 wire)	350 Vdc	Indoor/Outdoor

H



Residential Hardwired Protection



I



Stand Alone Local Antenna/Cable - Satellite/Cable Internet Protection

I. IG1CM

- Provides Protection for 1 Line (Expandable to 2 Lines)
- 10 kA surge protection per line
- Gas Tube Protection 90 Volt DC Breakdown

Model Number	Application	Lines	Thread Type	DC Breakdown Voltage	Application
IG1CM	Cable TV/internet/satellite	1	F	90 Vdc	Indoor

J

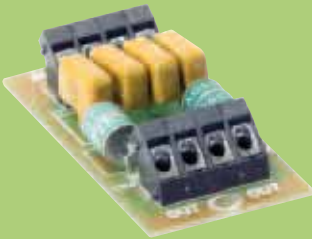


J. IG1C3R

- Protection same as IG1CM
- Provides Protection for 1 Line (Expandable to up to 6 Coax Lines)
- Nema 3R Type Enclosure

Model Number	Application	Lines	Thread Type	DC Breakdown Voltage	Application
IG1C3R	Cable TV/internet/satellite	1 Standard (up to 6)	F	90 Vdc	Indoor/Outdoor

K



K. IG2T

- Spare Telephone / Modem / DSL Internet Protection Module

Model Number	Lines	For Use In:
IG2T Spare	2	IG2TM, IG1CM, IG2T3R, IG1C3R, IG1300-2T-1C

L

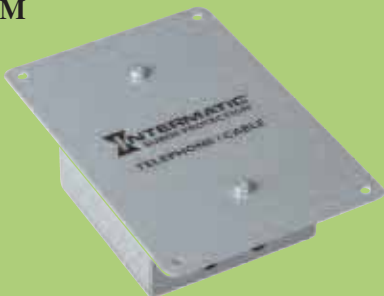


L. IG1C

- Spare Coax Cable Protection Module

Model Number	Lines	For Use In:
IG1C Spare	1	IG1CM, IG1C3R, IG2TM, IG4TM, IG2T3R

M



M. IGFlush Mount Kit

- Flush mount kit for IG2TM, IG4TM, and IG1CM

Model Number	For Use In:
IG Flush Mount Kit	IG2TM IG4TM, IG1CM

Surge Arresters



Features:

- Designed for outdoor installations on service entrance and utility meter cabinets
- Approved for outdoor applications such as irrigation equipment, pumps, lighting fixtures, traffic signaling devices, farm equipment, HVAC controls and motors
- Parallel metal oxide varistors (MOV) from each line to grounded neutral provide increased product capability
- Molded polycarbonate housing with 1/2" x 20 threaded nipple is weatherproof and UV resistant
- Epoxy encapsulation protects components from moisture, dirt and corrosion
- Color coded 18" leads
- UL listed as a secondary surge arrester, ANSI/IEEE C62.11 for Category "C" locations "OWHX"
- 2 year product warranty

A. AG2401C

- 120/240 single phase, 2 pole 3 wire device
- 18" 14 gauge leads

B. AG2083C

- 120/208 VAC, 3 pole 4 wire device
- 18" 12 gauge leads

C. AG2403C

- 240 VAC, 3 pole 4 wire device
- 18" 12 gauge leads

D. AG4803C

- 277/480 VAC or 480 VAC, 3 pole 4 wire device
- 18" 12 gauge leads

E. AG6503C &

AG6503L

- Up to 600 V three phase, 3 pole 4 wire device
- 18" 12 gauge leads (AG6503); 36" 10 gauge leads (AG6503L)

F. AG4801

- 277V or 480V VAC single phase, 2 pole 3 wire device
- 18" 10 gauge leads
- 18" 6 gauge green ground lead

G. AG2401C-IND

- 120/240 single phase, 2 pole 3 wire device
- 18" 14 gauge leads

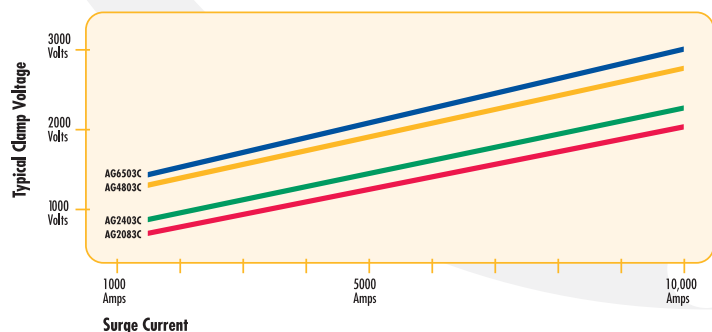
H. AG6503C-IND

- Up to 600 V three phase 3 pole 4 wire device
- 18" 12 gauge leads

Model	Service Voltage	Poles	Number of Leads/ Length	Wire Configuration	Actual Clamping Voltage (Line to Ground)		
					1500A	5000A	10000A
Standard (No LED's)							
AG2401C	120/240V	1 or 2	3/18"	L1, L2, GND/N	490	980	1410
AG2083C	208V	3	4/18"	L1, L2, L3, GND/N	490	980	1410
AG2403C	240V	3	4/18"	L1, L2, L3, GND/N	740	1330	1850
AG4801	277V or 480V	1 or 2	3/18"	L1, L2, GND	1450	2130	2620
AG4803C	480V	3	4/18"	L1, L2, L3, GND/N	1450	2130	2620
AG6503C	Up to 600V	3	4/18"	L1, L2, L3, GND/N	1640	2340	2920
AG6503L	Up to 600V	3	4/36"	L1, L2, L3, GND/N	1640	2340	2920
Enhanced (with LED's)							
AG2401C-IND	120/240V	1 or 2	3/18"	L1, L2, GND/N	490	980	1410
AG6503C-IND	Up to 600V	3	4/18"	L1, L2, L3, GND/N	1640	2340	2920

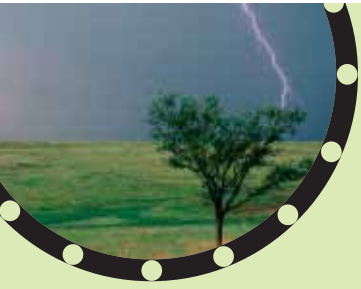
Match the correct model to the voltage of your system/machine

The chart below shows Typical Clamp Voltage for each model.



**Mounting Bracket
AG1BRKT**

Surge Arresters



A



B



INTERMATIC®

Surge Protection devices, with Connected Equipment Coverage, offers the user extended protection for sensitive equipment. In the unlikely event that a damaging transient surge passes through the surge device and damage occurs to the connected equipment, Intermatic will pay up to \$25,000 to repair or replace the equipment based on the specified model and coverage provided. Refer to the warranty document included with the product for specific coverage details and limitations.

A. UG240R




- 120/240 V Surge Arrester for up to 600 Amp service
- 2 pole 3 wire configuration for installation on utility cabinets and outdoor service panels
- Enclosure size (6.0"H x 3.5"W x 3.0"D)
- Steel weatherproof housing with lockable cover
- Epoxy encapsulation protects components from moisture, dirt and corrosion
- UL listed as a Secondary Surge Arrester (OWHX)
- LED indicator provides surge protection status
- 5 year product warranty

B. IG250LA

- 120/240 V Surge Arrester for up to 600 Amp service
- Designed for applications frequently subjected to high level surge energy
- Enclosure size (6.63"H x 3.75"W x 2.5"D)
- Epoxy encapsulation protects components from moisture, dirt and corrosion
- UL listed as a Secondary Surge Arrester (OWHX)
- LED indicator provides surge protection status
- 5 year product warranty

Model	Service Voltage	Phase	Number of 24" Leads	Wire Configuration	Peak Surge Current Per Phase/ Per System	Clamping Voltage @500A	Enclosure Size (inches)	Weight Lbs
UG240R	120/240	2	3	L1, L2, N	48 kA/115 kA	L-N: 555 L-L: 1028	6.06 x 3.81 x 3.31	2.4
IG250LA	120/240	2	3	L1, L2, N	48 kA/115 kA	L-N: 555 L-L: 1028	6.0 x 3.5 x 3.0	2.4

Surge Protection Device Connected Equipment Coverage

Product Type	Page #	Model Number	Maximum Repair or Replacement Coverage
Metal Multi-Outlet Strip	114	IG2012B15 IG20B12	
Metal Multi-Outlet Strip	114	IG11246 IG11266 IG11466	
Computer Control Center	114	IG141 IG141T	
Residential Grade Protector	116 117 118	IG1240RC IG1300-2T-1C IG1300-4T-2C IG4TM IG2T3R IG1CM IG1C3R	
Metal Multi-Outlet Strip	114 114	IG1866A IG2046 IG2066 IG2086	
Computer Control Center	114	IG143 IG143T	
Residential Grade Protector	116	IG3240RC	

CONSUMER PRODUCTS





Entering a New Century of Energy Management and Home Security!

Indoor and Outdoor Timers

Intermatic offers a wide variety of styles to meet today's application requirements.

Intermatic timers add convenience by turning lights ON when needed, and saves energy by turning lights OFF when not needed. They give homes a lived-in look providing an easy and economical way to improve home security.

Outdoor timers also let users control outside lights and holiday displays while staying comfortably inside.

Power Failure Lights & Photo Controls

Intermatic power failure lights have many practical applications in the home: in bedrooms, hallways, stairways, bathrooms, kitchens and more.

Photo controls are a simple solution to turning lights on when dark, off when light.

Do-it-Yourself Security Alarms

The Burglary Prevention Council statistics show that residential break-ins occur every 11 seconds.

Intermatic answers the demand for easy-to-install, affordable security products with a full line of DIY portable security alarms that have superior features.

Intermatic Wireless Alarms provide economical home security. There are no monthly fees or setup charges. The wireless feature offers easy do-it-yourself installation at affordable prices.



Heavy Duty Outdoor Timers for lights, motors & pool pumps



Digital Photo Control automatically turns lights on at dusk, off 6 hours later



Do-it-yourself Wireless Motion Sensor Alarms



Home Controls, Modules and controllers



Outdoor Digital Timers with light sensor to control outdoor lights & holiday displays



Heavy-Duty Digital 7-Day Wall Switch Timers to control fans, lights & appliances with "never set it again" feature



All purpose Heavy-Duty Lamp & Appliance Timers



24 Hr. Heavy-Duty Programmable Digital Timer for lamps, stereos, & appliances





Until now, the ability to reliably and cost efficiently control lighting and electronics and electrical devices in the home, using Radio Frequency, was extremely limited. Intermatic introduces a line of cost effective plug-in modules, in-wall receptacles and switches and easy-to-use controllers that allow fingertip control of multiple items in and around the house. Intermatic's Home Controls incorporate Z-Wave™ technology – the most advanced, low cost and highly efficient Radio Frequency based technology in the industry.

Innovative Features:

- All items are controlled by Radio Frequency (no wiring is involved)
- Easy DIY installation
- All products use unique Z-Wave™ technology
- Two-way feedback lets you know if the system is properly set up and if the system is working properly
- The cost for this highly reliable system is priced much less than comparable systems that require contractor installation
- All modules and in-wall products can be set for timing control
- Each module includes a "repeater" function, for unmatched reliability
- Controllers can control up to 192 devices and can create "scenes" to create the light level look wanted



A. HA01C Wall Receptacle

- Replaces standard wall receptacles
- One receptacle is controlled
- LED shows feedback from controller during setup and that the controlled device is working
- Use with decora wall plate (not included)

Specifications:

- For indoor use only
- 15 Amps Resistive
- 8.3 Amps Tungsten
- 120VAC, 60 Hz
- Temperature operating range: 0°C to 60°C

B. HA02C Plug-In Appliance Module

- Controls appliances up to 15 Amps and lighting (including compact fluorescent bulbs)
- Heavy-duty 3 prong plug and receptacle
- Manual override
- LED shows feedback from controller during setup and that the controlled device is working

Specifications:

- For indoor use only
- 15 Amps Resistive
- 1200 W Inductive
- 1/2 HP
- 8.3 Amps Tungsten
- 120VAC, 60 Hz
- Temperature operating range: 0°C to 60°C

C. HA03C Plug-In Indoor Lamp Module

- Controls ON/OFF/DIM for incandescent lamps
- Manual override
- LED shows feedback from controller during setup and that the controlled device is working

Specifications:

- For indoor use only
- 300 Watts
- 120VAC, 60 Hz
- Temperature operating range: 0°C to 60°C

D. HA04C Outdoor Lighting Module

- Controls ON/OFF outdoor devices
- Weather resistant
- 6" cord
- Manual override
- LED shows feedback from controller during setup and that the controlled device is working

Specifications:

- 15 Amp Resistive
- 1/2 HP
- 1200 W Inductive
- 8.3 Amp Tungsten
- 120 VAC, 60 Hz
- Temperature operating range: -35°C to 60°C



B



C



D



E



E. HA05C Outdoor Lamp Screw-In Module

- For incandescent and PAR lamps
- Fits most outdoor fixtures
- ON/OFF functions
- Manual override
- LED shows feedback from controller during setup and that the controlled device is working

Specifications:

- 300 W Tungsten, 4 W compact fluorescent
- 120 VAC, 60 Hz
- Temperature operating range: -35° C to 60° C

F



F. HA06C Indoor Wall Switch

- Rocker style uses decorative wall plate (not included)
- ON/OFF/DIM controls
- Manual override
- LED shows feedback from controller during setup and that the controlled device is working

Specifications:

- For indoor use only
- 300 Watts Tungsten
- 120 VAC, 60 Hz
- Temperature operating range: 0° C to 70° C

G



G. HA07 Master Remote Controller

- Controls all Intermatic Home Settings devices
- Large LCD screen shows all functions when set-up is successful, dim levels, channels and time functions
- Easy to set up
- Attractive design can be set on a table or wall mounted
- ALL ON/ALL OFF buttons controls devices to warn would-be intruders
- Controls up to 12 channels
- Each channel can control up to 16 devices
- Timing controls for all devices include:
 - Set the Astronomic feature and you will never have to reset the timer for the everyday changes in SUNRISE and SUNSET times.
 - Multiple time options: all week, 5 days, weekends or individual days
 - RANDOM timing option for a "lived-in" look
 - Optional automatic Daylight Savings Time function
- 8 dimming levels
- Requires 4 AA batteries (not included).

Specifications:

- Temperature operating range: 0° C to 60° C

H



H. HA09C Handy Remote Control

- Controls all Intermatic Home Controls devices
- Easy to set up
- Attractive, easy to hold
- Controls up to 6 channels
- Each channel can control up to 16 devices
- 8 dimming levels
- Requires 4 AAA batteries (not included)

Specifications:

- Temperature operating range: 0° C to 60° C

Indoor Plug-In Timers



Heavy Duty Lamp & Appliance Timers

- A. TN111C
Lamp & Appliance Timer**
- 2 ON / 2 OFF settings per day
 - Controls lamps & appliances
 - Ideal for all-purpose use
 - Ratings: 15 Amp Resistive, 1750 Watts Tungsten, 1/3 HP, 125 VAC, 60 Hz
- B. TN111GC
Lamp & Appliance Timer With Lighted Dial**
- Transparent plastic dial acts as a night light
 - 2 ON / 2 OFF settings per day
 - Ideal for all-purpose use
 - Ratings: 15 Amp Resistive, 1750 Watts Tungsten, 1/3 HP, 125 VAC, 60 Hz
- C. TN811C
Multi-Setting Timer**
- 24 ON / 24 OFF settings per day
 - Convenient programmable settings
 - Enhances safety & security by making home look more "lived-in"
 - Ratings: 15 Amp Resistive, 1750 Watts Tungsten, 1/3 HP, 125 VAC, 60 Hz

- D. TN711C
Random Pattern Security Timer**
- 2 on/2 off settings per day
 - Turns lights on and off automatically within ± 15 min. of the set times
 - Eliminates the predictable "timer-controlled" look
 - Ratings: 15 Amp Resistive, 1750 Watts Tungsten, 1/3 HP, 125 VAC, 60 Hz
- E. TN311C
Heavy-Duty Grounded Timer**
- 3 on/3 off settings per day
 - For air conditioners, heaters and other heavy electrical loads
 - Ratings: 15 Amp Resistive, 1750 Watts Tungsten & Resistive, 125 VAC, 60 Hz, 12 FLA, 72 LRA, 120 VAC Motor (12 AMP Air Conditioner)

Digital Plug-in Timers

- F. DT17C
7-Day Heavy-Duty Digital Timer**
- Up to 14 ON / 14 OFF settings per day or 98 ON / 98 OFF settings per week
 - Random setting option avoids predictable "timer-controlled" look
 - 3-prong grounded plug and receptacle
 - Controls lamps (including fluorescent), TVs, stereos and appliances
 - Easy-to-set hand-held programming with battery backup
 - Manual override feature
 - Ratings: 15 Amp Resistive & Inductive, 500 Watts Tungsten, 1/3 HP 120 VAC
- G. DT121C
Digital Lamp Timer**
- 2 ON / 2 OFF settings per day
 - Controls indoor lamps
 - To-the-minute accuracy
 - Large display, easy to read
 - Manual override feature
 - Ratings: 8.3 Amp Resistive and Inductive, 300 Watts Tungsten, 120 VAC, 60 Hz
- H. DT27C
Heavy-Duty Digital Timer with Astronomic Feature**
- Up to 7 ON/OFF settings per day
 - Astronomic features allow setting it once without ever having to reset it again; follows daily changes in sunrise/sunset times
 - Random setting option avoids predictable "timer-controlled" look
 - 3-prong grounded plug and receptacle
 - Controls lamps (including fluorescent), TVs, stereos and appliances
 - Easy to program
 - Battery backup
 - Manual override feature
 - 15 Amp Resistive and Inductive, 500 Watts Tungsten, 1/3 HP, 120 VAC, 60 Hz
- I. TB121C
Digital Table Top Timer**
- 2 ON / 2 OFF settings per day
 - Attractive tabletop styling in decorative platinum
 - 5 ft. cord
 - Easy to reach
 - Large display, easy to read
 - To-the-minute accuracy
 - Manual override feature
 - Ratings: 8.3 Amp Resistive and Inductive, 300 Watts Tungsten, 120 VAC, 60 Hz

Override switch with on/off indicator faces up - easiest to view and change

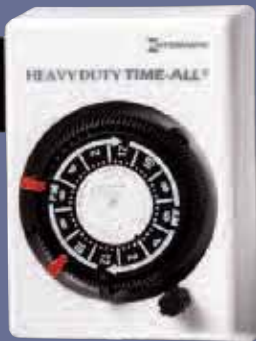
Unique "time of day" window - quickest and easiest to set

Oversized color-coded trippers - simplest to use





Appliance & Wall Switch Timers



A,
B,
C



D

F

H

Heavy Duty Appliance Timers

A. HB112C Air Conditioner & Appliance Timer

- Automatically controls 240 volt air conditioners, heaters, heavy-duty appliances and lamps
- 3,750 watt capacity
- Plugs directly into wall outlet
- 2 ON/2 OFF settings per day
- 3-prong 220-240 Volt grounded plug and receptacle
- Manual override ON/OFF switch



3750W/240V/
2 H.P. 240V Max.
Motor Load

B. HB114C Air Conditioner & Appliance Timer

- Same as HB112C except for the following:
- 5,000 Watt capacity



5000W/240V/
2 H.P. 240V Max.
Motor Load

C. HB113C Air Conditioner & Appliance Timer

Same as HB112C except for the following:

- Automatically controls 120 Volt air conditioners, heaters, heavy-duty appliances and lamps
- 2,500 Watt capacity



2500W/120V/
1 H.P. 120V Max.
Motor Load

Wall Switch Timers

D. ST01C Heavy Duty In-Wall Timer with Astronomic Feature

Can be used with four separate programming options:
Same settings Monday through Friday, Saturday & Sunday,
all 7 days of the week or individual daily settings.

- DST for 2006, 2007 and flexible for future changes, if needed
- Set it once and never set it again; follows daily changes in sunrise/sunset times
- For single pole and three way applications up to 100 ft.
- Controls lighting including fluorescent and heavy duty loads such as fans and appliances
- Up to 6 ON/OFF settings per 7-day period a total of 42 ON/42 OFF settings per week
- Easy-to-set 6 button programming
- LCD digital clock and readout
- To-the-minute setting accuracy
- Battery backup
- Random setting feature available to avoid predictable "timer controlled" look
- Manual override feature
- Use with decorator-style wall plate (not included)
- Ratings:
 - Resistive: 15 A, 120-277 VAC
 - Tungsten: 15 A, 120 VAC, 6 A, 208-277 VAC
 - Ballast: 8 A, 120 VAC, 4 A, 208-277 VAC
 - Motor: 1 HP, 120 VAC, 2 HP, 240 VAC
 - DC Loads: 4 A, 12 VDS, 2 A, 28 VDS

F. EJ351C Programmable 24-hour Security Timer

- Up to 24 ON/24 OFF settings per day
- Random setting turns light ON and OFF at slightly different times each day
- Self-learning feature: if not manually programmed, it will repeat the first 24 hr. ON/OFF pattern
- 15 minute memory guard protects against power failure
- Replaces any standard wall light switch
- Use with existing wall plate; standard (toggle) or decorator (rocker) styles
- Ratings: 500 Watts Incandescent, 120 VAC, 60 Hz

G. EJ500C Indoor Digital Wall Switch Timer with Astronomic Feature

- Flushmount design
- 6 ON/6 OFF settings per day
- Controls incandescent and fluorescent (class "P" ballast) lighting
- Easy to set programming
- Set it once and never set it again; follows daily changes in sunrise/sunset times
- Battery backup guards against memory loss
- Replaces any standard wall switch
- Use with decorative style wall plate(not included)
- Ratings: 500 Watts Incandescent, 120 VAC, 60 Hz

E. ST01AC Heavy Duty In-Wall Timer with Astronomic Feature

Same as ST01C except Almond color

H. EJ500AC Indoor Digital Wall Switch Timer with Astronomic Feature

Same as EJ500C except Almond Color

Outdoor Timers



A. HB31R Heavy Duty Outdoor Timer (15 Amp)

- Up to 2 ON / 2 OFF settings per day
- Full 15 Amp capacity controls lighting and heavy-duty loads such as motors and pool pumps
- Grounded plug
- Manual override ON/OFF switch
- Waterproof cover
- Heavy-duty 12" grounded cord
- 120 VAC, 60 Hz

B. HB35R Outdoor Timer (10 Amp)

- 2 ON / 2 OFF settings per day
- Grounded plug
- Manual override ON/OFF switch
- Waterproof cover
- Heavy-duty 15" cord
- 120 VAC, 60 Hz

C. HB51RC Outdoor Timer with Light Sensor

- Highly versatile control with choice of operating modes
- Photo ON / Timer OFF mode provides automatic ON at dusk, OFF after owner's choice on 2, 4, 6 or 8 hours
- Photo ON / Photo OFF mode offers automatic ON at dusk, OFF at dawn
- 8.3 Amp lighting timer
- Manual override ON/OFF switch
- Grounded, compact 6" cord

D. HB61RC Digital Outdoor Timer with Light Sensor

- Photo ON at dusk, OFF at dawn
- Photo ON at dusk, OFF at 1 hour increments from 1-9 hours
- Immediate ON/OFF at owner's selection in 1 hour increments for 1-9 hours
- Manual override
- Grounded 6" cord and receptacle

Model Number	Max. ON Time	Min. ON Time	Capacity
HB31R	23-1/2 hrs.	1/2 hr.	15 Amps, 1800 Watts Resistive; 15 Amps, 1800 Watts Tungsten, 15 FLA, 90 LRA; 120 VAC Operating Temp.: -40°C to +40°C
HB35R	23-1/2 hrs.	1/2 hr.	10 Amps, 1200 Watts Resistive; 10 Amps, 1200 Watts Tungsten; 120 VAC Operating Temp.: -40°C to +40°C
HB51RC	Dusk to 8 hr.	Dusk to 2 hr.	8.3 Amps, 1000 Watts Resistive; 8.3 Amps, 1000 Watts Tungsten, 120 VAC Operating Temp.: -35°C to +40°C
HB61RC	Dusk to 8 hr.	Dusk to 2 hr.	8.3 Amps, 1000 Watts Resistive; 8.3 Amps, 1000 Watts Tungsten, 120 VAC Operating Temp.: -35°C to +40°C





Outdoor Timers

E



E. HB77R Digital Outdoor Timer

- 15 Amp capacity controls lighting and heavy-duty loads such as motors and pool pumps
- 14 ON / OFF settings per day - a total of 42 ON / OFF settings per week - can be used with 4 separate programming options
 - Same settings Monday through Friday
 - Same settings Saturday and Sunday
 - Same settings all 7 days of the week
 - Various daily settings
- Easy hand-held programming
- Replaceable button cell batteries (included) maintains program, during power failure

G. HB88RC

Programmable Outdoor Timer

- 15 Amp capacity controls lighting and heavy duty loads such as engine block heaters, holiday and landscape lighting, pool/spa pumps and more
- 7 day / 7 event programming
- Multiple daily programming options
 - Same settings Monday through Friday
 - Same settings Saturday and Sunday
 - Same settings all 7 days of the week
 - Individual daily settings
- Two timed receptacles
- Battery backup
- Ratings: 15 Amp Resistive and Tungsten, 1000W Inductive, 1/2 HP, 120 VAC, 60 Hz

F



F. HB1116R 6 Outlet Electromechanical Timer with Stake

- 2 ON/OFF settings per day
- Full 15 Amp capacity controls lighting and heavy loads such as motors, engine block heaters and pool pumps
- Weatherproof cover
- 24" grounded cord
- Grounded receptacle
- Circuit breaker
- Manual override ON/OFF switch
- For wall mounting or stake mounting

G



Model Number	Max. ON Time	Min. ON Time	Capacity
HB77R	6 days 23 hrs. 59 min.	1 min.	15 Amps Resistive and Inductive, 500 Watts Tungsten, 1/3 H.P., 120 VAC Operating Temp.: -35°C to +40°C
HB1116R	23-1/2 hrs.	1/2 hr.	15 Amps, 1800 Watts Resistive; 15 Amps 1800 Watts Tungsten 15 FLA, 90 LRA, 120 VAC Operating Temp.: -40°C to +40°C
HB88RC	6 days 23 hrs. 59 min.	1 min.	15 Amps, 1000 Watts Resistive; 15 Amps 1000 Watts Tungsten 1/2 HP; 120 VAC; 60 Hz

Photo Controls Power Failure Light



Safety Light Products

A. NE1C

Screw-In Photo Control

- Automatically turns electrical load ON at dusk, OFF at dawn
- Screws into any standard incandescent light socket
- Controls interior and exterior lights

B. NE2C

Automatic Security Light Dual Photo Cell with Flicker Eliminator

- Automatically turns electrical load ON at dusk, OFF at dawn
- Advanced technology circuit saves energy
- Screws into any standard incandescent light socket
- Controls interior and exterior lights

C. NE3BC

Digital Photo Control, Time Controlled

- Automatically turns light ON at dusk and OFF 6 hours later
- Soft start extends bulb life
- Controls incandescent lights up to 150 Watts
- Screw into any standard incandescent light socket
- Controls indoor and exterior lights
- Handles up to 150 Watt incandescent and 45 Watt fluorescent bulbs

D. NE200C

Plug-In Photo Control

- Automatically turns electrical load ON at dusk, OFF at dawn
- For outdoor spot and flood lamps, used on driveways and patios
- Also ideal for indoor or outdoor PL lamp fixtures (compact fluorescent)

E. NE250C

Outdoor Photo Control

- Automatically turns electrical load ON at dusk, OFF at dawn
- For outdoor spot and flood lamps, used on driveways and patios
- Handles up to 150 Watt incandescent bulbs

F. NE5C

Plug-In Photo Control

- Automatically turns electrical load ON at dusk, OFF at dawn
- Plugs into any polarized indoor wall socket
- Controls indoor devices such as table light, floor light, radio or TV

Power Failure Light

G. PR3C

3-in-1 Power Failure Light

- Light automatically comes on when power goes out
- Automatic guide light
- Can be used as a handy rechargeable flashlight
- Screw-off cover with replaceable #14 flashlight bulb
- Plugs into any polarized indoor wall socket
- Provides safety and security
- Unique receptacle for plugging in additional lamp or appliance
- 120 Volts, 60 Hz, 1 Watt





Intermatic Do-It-Yourself Security

Security Alarms



**A. SP230B
Wireless Alarm with Motion Sensor**

- Place on wall, table or shelf
- Piercing alarm activated when movement is detected
- Warning sticker included
- Programmable code entered on keypad activates/deactivates alarm
- 110 dB siren

**C. SP440B
Wireless Window Alarm**

- Piercing alarm activated when contact point is broken
- Mounts on window
- ON/OFF switch activates/deactivates alarm
- 90 dB siren



**B. SP130B
Wireless Door Alarm with
Programmable Keypad**

- Piercing alarm activated when contact point is broken
- Mounts on door
- Code entered on keypad activates/deactivates alarm
- 110 dB siren

**D. SP500
Window Stickers**

- Discourages intruders
- 4 pack



**E. SP640B
Personal Security Alarm**

- Piercing alarm sounds when pin is removed
- Small enough to hold in the palm of the hand
- Alerts others that help is required
- Includes flashlight and belt clip
- 90 dB siren



Malibu® Low Voltage Landscape Lighting



Malibu®, the leading landscape lighting brand, has been making lighting systems to enhance the beauty, safety and security of American homes for almost 40 years. In that time we've learned a lot about how American consumers use their outdoor space, and we've seen the definition of "outdoor lifestyle" grow. People spend more time outdoors than ever before, and it's important to them to decorate their outdoor space. Malibu® helps them make their outdoors as beautiful, livable and enjoyable as their indoors.

Fixtures For Every Need

The traditional approaches to outdoor lighting are to provide uplight, to highlight trees or bushes and create a focal point for beauty; downlight to place along walkways and steps or outline driveways for safety; and backlight to illuminate walls or fences and light up a home's exterior for security. To fill these needs, Malibu® offers a wide variety of floodlights and decorative fixtures, path and garden lights. Traditional lighting approaches are still very relevant today, but the trend that expands gracious living to a home's outdoor space has led to a new approach, the creation of outdoor decorative elements that provide function and beauty in the daytime, as well as illumination at night. These items include an illuminated birdbath, lighthouse and rock spotlights.

Market Leading Power Packs and Accessories

Malibu® high quality Power Packs offer dependable power and integrated Intermatic timers to ensure that your customers' landscape lighting delivers bright reliable light in any weather, year in and year out. Malibu® bulbs and cable complete the picture to give you safe, weather-resistant installations.

Malibu® Products are Affordable and Guaranteed

Malibu® is committed to building the best products available across several price ranges. We also offer one of the most comprehensive warranties in the industry; from 3 years to lifetime depending on the fixture, and 5 years on Power Packs.

For more information and to view the most up-to-date listing of Malibu® Landscape Lighting products, see our Landscape Lighting catalog, or visit our web site at www.intermatic.com.



Lighting the way to outdoor living

12 volt fixtures provide important benefits not available with conventional 110 volt systems

- Fast, easy installation
- Flexibility to add and adjust fixtures as landscape matures
- Economical operation, thanks to longer lamp life & less energy usage
- No hard wiring required
- No need for junction box on each fixture
- Maximum eye appeal both night (when on) & day (when off)





Malibu® Low Voltage Landscape Lighting



CS110P
Metal Walk Light with 11W wedge base bulb and Pewter finish



CS110TA
Metal Walk Light with 11W wedge base bulb and Architectural Bronze finish



CS120TA
Metal Walk Light with 18W wedge base bulb and Architectural Bronze finish



CS14P
Metal Carriage Light with 11W wedge base bulb and Pewter finish



CS17K
Metal Mission Light with 11W wedge base bulb and Antique Copper finish



CS140K
Metal Lantern Light with 18W wedge base bulb and Antique Copper finish



CS180C
Copper Floodlight with 20W halogen MR16 bulb



CS200C
Copper Tier Light with 18W wedge base bulb



CS230R
Metal Mission Light with 18W wedge base bulb and Aged Brass finish



CS240
Metal Parfait Light with 18W wedge base bulb and Aged Brass finish



CS3300B
Metal Walk Light with 11W wedge base bulb and Oiled Bronze finish



CS508K
Metal floodlight with 35W halogen MR16 bulb and Antique Copper finish



Malibu® Low Voltage Landscape Lighting



CS508P
Metal floodlight with 35W halogen MR16 bulb and Pewter finish



CS508S
Metal floodlight with 35W halogen MR16 bulb and Sand finish



CS508TA
Metal floodlight with 35W halogen MR16 bulb and Architectural Bronze finish



CS7AC1
Metal garden light with 11W wedge base bulb and Antique Copper and Oil Rubbed bronze finish



CS7CT4
Metal garden light with 4W wedge base bulb and Black finish



CS7E1
Metal garden light with 4W wedge base bulb and Black finish



NA320
Natural Rock Light with 20W MR11 bulb



NA401
Metal Birdbath Light with 35 watt MR16 bulb and Verdigris finish



NA501
Metal Hanging Floral Basket Light with 7 watt wedge base bulb and Verde finish





Malibu® Low Voltage Landscape Lighting

Finishes & Colors

Choose from classic or contemporary designs in a variety of finishes and textures. Use Malibu® fixtures to blend into your landscape design, add an elegant touch to a garden path or highlight architecture for safety and security.



Aged Brass



Antique Copper (K)



Architectural Bronze (TA)



Black Chrome (BC)



Black Satin Bronze (BSB)



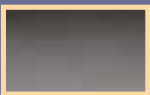
Brushed Nickel (N)



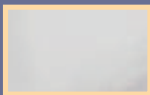
Copper (C)



Graphite (GR)



Oil Rubbed Bronze (OB)



Pewter (P)



Rustic Brick (RB)



Sand (S)



Verde (V)



Verde Patina (V)



Verdigris

Due to Intermatic's dedication to technological advancement, it is possible that specifications and/or appearances of our products may have changed after the printing of this literature. See price list for the latest available product light sets.



CL1
Metal floodlight with 50W halogen MR16 bulb and Black finish



CL111R
Well Light with 11W Poly-Star bulb and Black finish



CL115
Submersible Light with 20W halogen MR16 bulb and Black finish



CL191
Metal Tier Light with 11W wedge base bulb and Black finish



CL191K
Metal Tier Light with 11W wedge base bulb and Antique Copper finish



CL191S
Metal Tier Light with 11W wedge base bulb and Sand finish



CL191V
Metal Tier Light with 11W wedge base bulb and Verde finish



CL280
Metal Tulip Light with 18W wedge base bulb and Black finish



CL305P
Metal Walk Light with 11 watt wedge base bulb and Pewter finish



CL4
Metal Hanging Lantern with 7W wedge base bulb and Black finish



CL501
Metal Well Uplight with 35 watt MR16 bulb and Black finish



CL503TA
Metal Surface Light with 7 watt wedge base bulb and Architectural Bronze finish

Malibu® Low Voltage Landscape Lighting



CL507
Metal Floodlight with 20W halogen MR16 bulb and Black finish



CL508
Metal Floodlight with 35W halogen MR16 bulb and Black finish



CL509
Metal Wall Wash Floodlight with 20W halogen bi-pin bulb and Black finish



CL635R
Metal Bollard Light with 20W MR11 bulb and Black Finish



CL635P
Metal Bollard Light with 20W MR11 bulb and Pewter finish



CL635RS
Metal Bollard Light with 20W MR11 bulb and Sand finish



CL635RK
Metal Bollard Light with 20W MR11 bulb and Antique Copper finish



CL711
Metal Mushroom Light with 10W halogen bi-pin bulb and Black finish



CL801BC8
Metal garden light with 4 and 11W wedge base bulbs, Black Chrome finish and Frosted Crackle Glass Globe



CL802BSB6
Metal garden light with 4 and 11W wedge base bulbs, Black Satin Bronze finish and Mocha Marble Glass Globe



CL802P7
Metal garden light with 4 and 11W wedge base bulbs, Pewter finish and Square Frosted Glass Globe



CL803S2
Metal garden light with 4 and 11W wedge base bulbs, Sand finish and Frosted Ribbed Glass Globe





Malibu® Low Voltage Landscape Lighting



CL8041
Metal garden light with 4 and 11W wedge base bulbs, Black finish and Alabaster-Style Glass Globe



CL9
Metal Floodlight with 20W halogen bi-pin bulb and Black finish



CL9S
Metal Floodlight with 20W halogen bi-pin bulb and Sand finish



CL905
Metal Half Brick Light with 7W wedge base bulb and Black finish



CL905K
Metal Half Brick Light with 7W wedge base bulb and Antique Copper finish



LT8
Metal Surface Light with 7W wedge base bulb and Black finish



LT8K
Metal Surface Light with 7W wedge base bulb and Antique Copper finish



LT9
Metal Floodlight with 10W halogen bi-pin bulb and Black finish



LT10
Metal Shaded Flare Light with 11W wedge base bulb and Black finish



LT13
Metal Three Tier Light with 7W wedge base bulb and Black finish



LT13N
Metal Three Tier Light with 7W wedge base bulb and Nickel finish



LT13S
Metal Three Tier Light with 7W wedge base bulb and Sand finish

Malibu® Low Voltage Landscape Lighting



LT406
Metal Two Tier Light
with 4W wedge base
bulb and Black finish



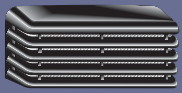
LT406N
Metal Two Tier Light
with 4W wedge base
bulb and Nickel finish





Malibu® Low Voltage Landscape Lighting

Low Voltage Polymer



LD622L/ML60721
Plastic Deck Light
4W wedge base bulb



LV181/ML10781
Plastic Tier Light
7W wedge base bulb



LV103/ML91103
Plastic Floodlight
11W wedge base bulb



LV108/ML90708
Plastic Floodlight
7W wedge base bulb



LV183/ML11183
Plastic Tier Light
11W wedge base bulb



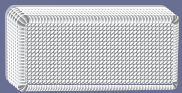
LD641/ML60704
Plastic Deck Light
7W wedge base bulb



LX9Z/ML90401
Plastic Floodlight
4W wedge base bulb



LX1/ML10401
Plastic Tier Light
4W wedge base bulb



LD622/ML60722
Plastic Deck Light
4W wedge base bulb

Power Packs

Intermatic offers the widest variety of Power Packs in any wattage and control option your system may require. Power Packs are available from 44 to 900 watts, allowing you to choose which power supply is right for your particular lighting plan.

All Power Packs are certified for safe operation and long life. Keyhole mountings are featured for ease of operation and installation. See chart below for available Power Packs and features.

Models	Max. Wattage Output	Specifications
ML44T	44 Watt	Timer with 2 sets of trippers
ML60TW	60 Watt	Timer with 2 sets of trippers and ground shield
ML88T	88 Watt	Timer with 2 sets of trippers
ML100T	100 Watt	Timer with 2 sets of trippers
ML121RT	121 Watt	Timer with 2 sets of trippers
ML200RT	200 Watt	Timer with 2 sets of trippers
ML200RTW	200 Watt	Timer with 2 sets of trippers and ground shield
ML300RTW	300 Watt	Timer with 2 sets of trippers and ground shield
ML600TW	600 Watt	Timer with 2 sets of trippers and ground shield
ML900TW	900 Watt	Timer with 2 sets of trippers and ground shield

IMPORTANT: When planning your lighting and choosing a Power Pack, your total bulb wattage must not exceed maximum transformer wattage output rating.

Power Pack Models



**ML44T
ML60TW
ML88T**



**ML100T
ML121RT**



**ML200RT
ML200RTW**



ML300RTW



ML600TW



ML900TW



Low Voltage Cable

For fast, easy installation of Malibu® light fixtures, use low voltage cable. It's safe, weather-resistant, self sealing and available in 16, 14 and 12 gauge sizes.

Malibu® Solar-Powered Accent Lighting



Solar accent lighting is the simplest and safest way to brighten your home's walkways, decorate patios and flower beds or create an enchanting lake view. Solar powered light fixtures cost nothing to operate and each fixture automatically recharges during the day and turns on at dusk. Malibu solar accent lights utilize the latest in L.E.D. technology to create lights that are brighter and stay lit longer than other solar-powered brands. Choose from our new brighter white L.E.D. light fixtures or from our more traditional amber colored L.E.D. fixtures. Each fixture contains a scientifically designed solar collector panel that converts sunlight into electrical energy. With no plug-in receptacles or power packs, solar accent lights can be installed even in remote areas where the sun shines and regular power sources aren't available. Malibu solar lights operate independently, allowing you to use as many as you like.

Premium Metal Walk Light



LZ7CT4
Metal Contemporary Walk Light with White L.E.D.



LZ7FC4
Metal French Country Walk Light with White L.E.D.



LZ7Z6
Premium Cast Metal Zen style Walk Light with White L.E.D.



LZ51GR
Metal French Lantern with White L.E.D., Graphite Finish



LZ191
Cast Metal Tier Light with White L.E.D.
LZ191K
Copper finish



LZ305P
Metal Pillar-Style Walklight with White L.E.D. and Pewter finish.



LZ601
Metal Lantern with Graphite Finish and White L.E.D.



LZ602
Metal Diamond Mission Light with Aged Brass Finish and White L.E.D.



LZ603
Metal Pagoda Light with Black Finish and White L.E.D.



LZ111010B
Metal Walklight with White L.E.D. and Oil Bronze finish.



LZ111010P
Metal Walklight with White L.E.D. and Pewter finish.



LZ111010RB
Metal Walklight with White L.E.D. and Rustic Brick finish.





Malibu® Solar-Powered Accent Lighting

Understanding Solar-Powered Accent Lighting

Solar lights are not for every lighting application. Malibu Solar Lights produce a glow that is ideal for outlining locations and darkened areas such as steps, walks, etc. Solar Lights are perfect for those applications where a regular power source is unavailable, where some sort of accent light is desired and where the area has exposure to the full daylight sun. Malibu Solar Lights can be installed just about anywhere; as long as there is enough sunlight available to recharge the batteries. The specially designed solar panel collects natural sunlight and converts it into electrical power that is stored in highly efficient, rechargeable batteries. Be sure all Solar collector panels are installed in a sunny location where they will receive adequate, unobstructed sunlight each day. Solar Light performance will be diminished during cloudy, rainy, or wintery weather conditions. With fully charged batteries, Solar Lights will provide many hours of nighttime illumination.



LZ11101V
Metal Walklight with White L.E.D. and Verde finish.



LZ11771H
Metal Prairie Style Light with White L.E.D. and Architectural Bronze finish.



LZ11771HK
Metal Prairie Style Light with White L.E.D. and Antique Copper finish.



LZ14001H
Metal Lantern Light with White L.E.D. and Black finish.
LZ14001HP
Pewter finish.



LZ21811K
Metal Fence Post Light with White L.E.D. and Antique Copper finish.



LZ25030RB
Small Metal Prairie style Lantern with Amber L.E.D. and Rustic Brick finish.
LZ25030V
Verde finish.



LZ230
Metal Mission Light with White L.E.D. and Aged Brass finish.

Metal Walk Lights



LZ406
Metal Tier Light with Amber L.E.D.



LZ407
Metal Tier Light with White L.E.D. and Pewter finish.



LZ418
Metal Walklight with Oil Rubbed Bronze Finish, White L.E.D..



LZ422WBR
Dark Brown Walklight with White L.E.D..
LZ422W
Black Walklight with White L.E.D..

Malibu® Solar-Powered Accent Lighting



LZ10130
Metal Tier Light with
Amber L.E.D..



LZ10131
Metal Tier Light with
White L.E.D..



LZ10131P
Metal Tier Light with
White L.E.D. and
Pewter finish.



Plastic Walk Lights



LZ1
Plastic Tier Light with
Amber L.E.D..



LZ1W
Plastic Tier Light with
White L.E.D..



LZ3
Plastic Contemporary
Solar Fixture with
Amber L.E.D.
LZ3W
White L.E.D.



LZ4H
Plastic Hanging
Carriage Light with
Amber L.E.D.
LZ4HW
White L.E.D.
LZ4HWGR
White L.E.D. with
Graphite finish.



LZ4M
Plastic Carriage Light
with White L.E.D. and
Black finish.
LZ4MK
Antique Copper finish.



LZ4MOB
Plastic Carriage Light
with White L.E.D. and
Rubbed Bronze finish.



LZ6
Table Top Accent Light
with Amber L.E.D.



LZ302
Plastic Post Top Light
with White L.E.D.





Malibu® Solar-Powered Accent Lighting



LZ312
Path Marker Light with
White L.E.D.



LZ701/LZ701W
Plastic Walklight with
White or Amber L.E.D.
and Brown finish.



LZ702/LZ702W
Plastic Walklight with
White or Amber L.E.D.
and Black finish.



LZ703/LZ703W
Plastic Walklight with
White or Amber L.E.D.
and Black finish.



LZ704/LZ704W
Plastic Walklight with
White or Amber L.E.D.
and Brown finish.



LZ705/LZ705W
Plastic Walklight with
White or Amber L.E.D.
and Black finish.



LZ20601P
Plastic Coach Light
with White L.E.D. and
Pewter finish.



Solar Flood Lights



LZ413
Plastic Flood Light Set
with Remote Panel and
3 White L.E.D.s per
Lamp



LZ413RP4
Plastic Flood Light Set
with 4 Lamps, 3 White
L.E.D.s per lamp



LZ414
Plastic Flood Light Set
with Remote Panel and
3 White L.E.D.s per
Lamp



LZ415
Flood Light with 3
White L.E.D.s

Malibu® Solar-Powered Accent Lighting



LZ419
Resin Flood Light with
3 White L.E.D.s



LZ605RP
Metal Flood Light with
12 White L.E.D.s, Black
Finish



Specialty Solar Lights



LZ303RB
Metal Hanging Lantern
with White L.E.D. and
Rustic Brick finish.



LZ305FP
Metal Pillar-Style
Walklight with White
Flickering L.E.D.s and
Pewter finish.



LZ310
Cast Metal Lamp-Post
Replacement Fixture
with 1 Watt White
L.E.D.



LZ314
Address Light with
Amber L.E.D.



LZ511A,B,C,R
Driveway Markers with
Steady ON or Flash
Modes



LZ604B
Solar Island Torch with
Flickering Amber
L.E.D.s



LZ706
Resin Pagoda Light
with Amber L.E.D. and
Natural finish.



LZ16220
Plastic Deck Light with
Amber L.E.D.

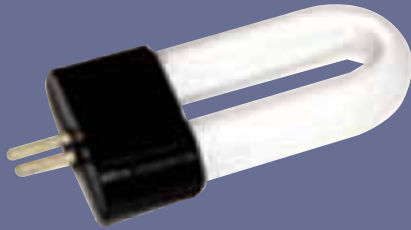




Malibu® Solar-Powered Accent Lighting



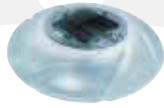
LZ90004
Replacement Batteries



LZ1WU
Replacement Bulb



LZ15004
Nickel Metal Hydride replacements



LZ16551
Plastic Floating Light
with White L.E.D.



LZB1
Plastic Solar Luminary
with Amber L.E.D

Novelty Solar lights



LZ306
Decorative Frog Light
with White L.E.D.



LZ307
Large Turtle with White
L.E.D.



LZ308
Decorative Lighthouse
with Amber L.E.D.



LZ313
Turtle with Amber
L.E.D.

Kits



LZ13RP4
Metal Tier Light Set
with 2 White L.E.D.s
per Lamp and Remote
Panel, Black Finish



LZ53RP4
Metal Deck Light Set
with 2 White L.E.D.s
per Lamp and Remote
Panel, Oil Rubbed
Bronze Finish



LZ280RP4
Metal Tulip Set with 2
White L.E.D.s per
Lamp and Remote
Panel, Oil Rubbed
Bronze Finish



LZ635RP4
Metal Bollard Set with
2 White L.E.D.s per
Lamp and Remote
Panel, Black Finish



LZ501RP4
Metal Walk Light Set
with 2 White L.E.D.s
per Lamp and Remote
Panel, Oil Rubbed
Bronze Finish



Mosquito Sentinel 360



MZ501
Trap

ACCESSORIES

MZ951
Mosquito Sentinel 360 Octenol Lure

MZ952
Mosquito Sentinel 360 Replacement Nets

MZ953
Mosquito Sentinel 360 Replacement Bulbs



MZ105



MZ904



MZ204G



MZ301



MZ101



MZ102



MZ902



- Attracts and kills mosquitoes in your yard
- Provides 360° protection against mosquitoes up to 1/2 acre
- Uses safe low-voltage power - No propane cylinders to refill



- Repels Mosquitoes up to 400 Sq. Ft.
- Patented chemical developed at University of Florida



- Blocks Mosquitoes up to 100 square feet! Patented Inhibitor blocks mosquito's ability to track your scent.
- Easy to Use
- Long Lasting
- Inhibitor refill lasts up to 3 weeks.

Cross Reference

Time Switch Motors

Model (Series) to be used	Description	Part #	UPC* Item #
MOTOR ONLY OLD STYLE T100			
T100, T170	24V 60Hz	N/A	
T100R201,	125V 50Hz	N/A	
T1400BR,	125V 60Hz	WG430-10D	11972 6
T1800BR,	208/277V 50Hz	WG434-20D§	11978*
T180, T500,	208/277V 60Hz	WG433-20D	11976 5
WH10,30,	480V 60Hz	WG436-20	11979*
WH40,70,80			
MOTOR ONLY NEW STYLE T100			
T100, T170	24V 60Hz	CW1570-10D	10828 8
T180,	125V 60Hz	WG1570-10D	11915 4
T100R201,	125V 50Hz	WG1571-10D	11919 2
T100R301,	208/277V 50Hz	WG1574-10D	11932 1
WH10,30,	208/277V 60Hz	WG1573-10D	02012 2
WH40,70,80	480V 60Hz	WG1576-10D	11938 3
MOTOR ONLY T100CR			
T100CR,	24V 60Hz	N/A	
T170CR,	125V 50Hz	WG1381-10§	11903*
T1400BCR,	125V 60Hz	WG1380-11§	11902*
T1800BCR	208/277V 50Hz	N/A	
	208/277V 60Hz	WG1383-11§	11904*
	480V 60Hz	N/A	
MOTOR AND CARRYOVER COMBINED T100CR			
T100CR,	24V 60Hz	N/A	
T170CR,	125V 50Hz	131T93GA	60090
T1400BCR,	125V 60Hz	131T68GA	21170
T1800BCR	208/277V 50Hz	131T70GA	60091
	208/277V 60Hz	131T69GA	21180
	480V 60Hz	N/A	
MOTOR ONLY			
AT1300R	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG430-20D	02009 2
	208/277V 50Hz	WG434-20§	11978*
	208/277V 60Hz	WG433-20D	02010 8
	480V 60Hz	WG436-20	11979*
Malibu Repl.	125V 60Hz	WG630D	02013*
Motors	125V 60Hz	WG1750-10§	11911*
	125V 60Hz	N/A	
MOTOR ONLY			
T1900,	24V 60Hz	N/A	
T8800,	125V 50Hz	N/A	
R8800	125V 60Hz	WG730-14D	12001*
	208/277V 50Hz	N/A	
	208/277V 60Hz	WG733-14D	12005 1
	480V 60Hz	WG736-14D	12008 2
MOTOR ONLY			
T7400B	24V 60Hz	N/A	
T7800B	125V 50Hz	N/A	
	125V 60Hz	WG1600-11	11939 0
	208/277V 50Hz	N/A	
	208/277V 60Hz	WG1603-11D	11951 2
	480V 60Hz	WG1606-11§	11948 2

Model (Series) to be used	Description	Part #	UPC* Item #
MOTOR ONLY			
T7400BC	24V 60Hz	N/A	
T7800BC	125V 50Hz	WG1381-10§	11903*
	125V 60Hz	WG1380-11	11902 4
	208/277V 50Hz	N/A	
	208/277V 60Hz	WG1383-11	11905 5
	480V 60Hz	N/A	
MOTOR AND CARRYOVER COMBINED			
T7400BC	24V 60Hz	N/A	
T7800BC	125V 50Hz	131T93GA	60090
	125V 60Hz	131T68GA§	21170
	208/277V 50Hz	N/A	
	208/277V 60Hz	131T69GA	21180
	480V 60Hz	N/A	
MOTOR AND CARRYOVER COMBINED			
V41079CR	24V 60Hz	N/A	
V45000	125V 50Hz	131T93GA	60090
V46100C	125V 60Hz	131T68GA§	21170
	208/277V 50Hz	N/A	
	208/277V 60Hz	131T69GA	21180
	480V 60Hz	N/A	
MOTOR ONLY			
V45400	24V 60Hz	N/A	
V46400	125V 50Hz	WG1381-10§	11903*
	125V 60Hz	WG1380-11§	11900*
	208/277V 50Hz	N/A	
	208/277V 60Hz	WG1383-11§	11904*
	480V 60Hz	N/A	
MOTOR ONLY			
T2000	24V 60Hz	CW720-10§	10846*
	125V 50Hz	N/A	
	125V 60Hz	WG720-10D	11997 0
	208/277V 50Hz	WG724-10§	12000*
	208/277V 60Hz	WG723-10D§	11999 4
	480V 60Hz	N/A	
MOTOR ONLY			
V47000	24V 60Hz	N/A	
V48000	125V 50Hz	N/A	
V49000	125V 60Hz	WG690-10	11991*
	208/277V 50Hz	N/A	
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
LS7000	24V 60Hz	CW190-10D	10839 4
	125V 50Hz	WG191-10§	11957*
	125V 60Hz	WG190-15D	11956 7
	208/277V 50Hz	WG194-10§	11960*
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
E1000	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG230-13D	11966 6
	208/277V 50Hz	N/A	
	208/277V 60Hz	WG233-18§	60037
	480V 60Hz	N/A	

Model (Series) to be used	Description	Part #	UPC* Item #
MOTOR ONLY			
C8815	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG790-11D	12019 8
	208/277V 50Hz	N/A	
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
C8825	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG760-10	12011*
	208/277V 50Hz	N/A	
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
C8835	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG780-12D	12017 4
	208/277V 50Hz	N/A	
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
C8845	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG750-10D	12010 5
	208/277V 50Hz	N/A	
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
C8855	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG800-11D	10854 7
	208/277V 50Hz	N/A	
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
C8865	24V 60Hz	CW770-10§	10852*
	125V 50Hz	N/A	
	125V 60Hz	WG770-10D	12013 6
	208/277V 50Hz	N/A	
	208/277V 60Hz	WG773-10	12014*
	480V 60Hz	N/A	
MOTOR ONLY			
C8866	24V 60Hz	CW770-10§	10852*
	125V 50Hz	N/A	
	125V 60Hz	WG770-10	12012*
	208/277V 50Hz	WG774-10	12015*
	208/277V 60Hz	WG773-10	12014*
	480V 60Hz	N/A	

N/A Not available.

All time switch motors are available in voltage and cycle shown in 2nd column. For example: To order new style T100 Series Motor in 60Hz 125V, order WG1570-10D.

NOTE: Carryover only sold as a complete unit with motor. **These voltages and corresponding motor numbers apply to all model numbers.

§ Available while supplies last.

Internal revisions may result in the motor you receive having a different dash number (WG430-3 vs. WG430-10) than the motor ordered. This revision has no effect on the motor function.

Cross Reference

24-Hour Time Switches

INTERMATIC	Paragon	Tork
24 Hour Time Switches (1 hour minimum "ON" time)		
T101	4001-00	1101/1191
T102	4002-71	1102
T103	4003-00	1103/1962
T104	4004-71, 4004-20	1104/1962
T105	4005-00S	3121
T101B	4001-00V	—
T101R	4011-00	1101-0/1191-0
T102R	4012-20	—
T103R	4013-00	1103-0/1962-0
T104R	4014-71, 4014-20	1104-0
T106R	—	—
24 Hour Time Switches with Skip-A-Day (1 hour minimum "ON" time)		
T171	P101S	7100
T172	—	7102
T173	4003-00S, P103S	7200
T174	4004-71S, P104S	7202
T175	4005-00S	7120
T176	4006-71S	7122
T171R	4013-00S	7100-0
T172R	4014-20S	7102-0
T173R	4013-00S	7200-0
T174R	4014-20S, 4014-71S	7202-0
T176R	—	7122-0
T1471BR	47017-0S	7300
T1472BR	47017-20S	7302
T1475BR	—	—
T1871BR	—	7220
24 Hour Time Switches with Skip-A-Day and Carryover 1 hour minimum "ON" time		
T1471BCR	47217-00S	7300L/7300L-0
T171CR	—	—
T173CR	4213-0S	7200L
T174CR	4114-27S	7202L
Water Heater Time Switches with manual "external override"		
WH40	—	WH2

Specialty Time Switches

INTERMATIC	Paragon	Tork
Irrigation Time Switches (12 minute minimum "ON" time)		
T8805P101C	—	—
R8806P101C	—	—
Cycle Time Switches (5 minute-4 hour dial)		
C8815	—	8121
C8835	—	8301
C8845	—	—
C8855	—	8061
C8865	—	8601
C8866	—	8602
Lighting Control Centers (7 day dial)		
T51211BC	—	T920L
T51311BC	—	T930L

Swimming Pool Time Switches

INTERMATIC	Paragon	Tork
24 Hour Time Switches in Plastic Case		
T101P	4011-00P	1101-N
T102P	—	—
T103P	4013-00P	1103-N
T104P	4014-71P	1104-N
24 Hour Time Switches w/ Heater Circuit		
T101R201	41011-00	—
T104R201	41014-20	1104FM
T101P201	41011-00M	—
T104P201	41014-20M	—
2 in 1 24 Hour Time Switches		
T10101R	4912-99	1101D
T10404R	4918-99	1104D
T12404R	4928-99	1104DF

Astronomic Time Switches

INTERMATIC	Paragon	Tork
Astro Dial		
V45471R	4003SZ, 47017-00S & 00SZ	7200Z/7300Z
V45472R	47017-71S & 71SZ	7202Z/7302Z
V45471CR	47217-00SZ	7200ZL/7300ZL
V45472CR	47217-20SZ & 27SZ	7202ZL/7302ZL

Special Timing Cycle

INTERMATIC	Paragon	Tork
24 Hour Time Switches 15 minute minimum "ON" time		
T1905	1015-00RS	8001
T1905R	42011-00	—
T1906	1015-00RS	8004
T1975	1015-00RS	8007
T1976	1015-00RS	8008
T1975E	1015-40TS	8001-U

Signal Timers

ET279C	25001-0S	—
ET279C	25002-0S	—
ET279C	23001-00S	5701/5702
ET279C	23002-20S	—
ET279C	23002-00S	—

24 Hour Switching (with adjustable 10-60 min.) "ON" times

T185	8025-00	4277
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Momentary Contact Time Switches (with dry contacts for low voltage remote and mechanically held contactor control)

ET279C	47016-00S	1847A
ET279C	47216-00S	1847AL
ET279C	—	1847AW
ET279C	7216-00	1847AWL

7-Day Time Switches

INTERMATIC	Paragon	Tork
T7401B	7007-00	W100/W200/ W300/W400
T7402B	7007-20, 7007-71	W202/W302/W402
T7801B	7008-00	W120/W220
T7802B	7008-20, 7008-71	W222
T7401BC	7217-00	W300L/W400L
T7402BC	7217-20	W302L/W402L
T7801BC	7218-00	W220L

In-Wall Timers

INTERMATIC	Grasslin	Paragon	Tork
24-Hour Electro-Mechanical In-Wall Timers			
E1010	—	—	—
E1020/E1120	KM2 ST-16	701A/701AC	WB101
E1221	—	701A-2G	WB103
E1220	KM2 ST-2G	—	WB103
24 Hour Electronic In-Wall Timers			
EJ351C	ETC-502	—	—
EJ353C	ETC-503	—	—
E1500C	—	—	—

Digital In-Wall Timers

INTERMATIC	Paragon	Tork
Interval Timers – Electronic		
E115MH	E500/ET2000/ET1100	—
E1200	—	—
E1210	—	—
E1220	—	—
E1230	—	—

Cross Reference

Spring Wound Timers

INTERMATIC†	M.H. Rhodes Mark Time	Tork††	Paragon†††
FF5M/FD5M	90004/9305M	A505M	SW5M/SWD5M
FF15M/FD15M	90005/9315M	A515M	SW15M/SWD15M
FF30M/FD30M	90006/9330M	A530M	SW30M/SWD30M
FF60M/FD60M	90008/9360M	A560M	SW60M/SWD60M
FF2H/FD2H	90281/9302H	A502H	SW2H/SWD2H
FF4H/FD4H	90240/9304H	A504H	SW4H/SWD4H
FF6H/FD6H	90007/9306H	A506H	SW6H/SWD6H
FF12H/FD12H	90001/9312H	A512H	SW12H/SWD12H
FF5MH	90030	—	SW5MH
FF15MH/FD15MH	90539/9315MH	A515MH	SW15MH/SWD15MH
FF30MH/FD30MH	90032/9330MH	A530MH	SW30MH/SWD30MH
FF60MH/FD60MH	90024/9360MH	A560MH	SW60MH/SWD60MH
FF6HH/FD6HH	90017/9306HH	A506HH	SW6HH/SWD6HH
FF12HH/FD12HH	90015/9312HH	A512HH	SW12HH/SWD12HH

INTERMATIC†	M.H. Rhodes	Tork††	Paragon†††
*SPDT (for reverse action applications)			
FF32HH	9302HH	—	—
FF34HH	9304HH	—	—
FF36H/FD36H	—	—	—
FF312H	—	—	—
FF315M	90012	—	—
FF330M	90011	—	—
FF360M	90010	—	—
DPST (for breaking both sides of 240 volt loads)			
FF415M/FD415M	—	—	—
FF430M/FD430M	—	—	—
FF460M/FD460M	—	—	—
FF46H/FD46H	—	—	—
FF412H	—	—	—

† FF Models with brushed aluminum plate for commercial/industrial applications. FD Models-decorator design with ivory or white time dial for use with existing toggle or decorator style switch plate.

†† Decorator models only.

††† PSW series no longer available; replaced by SW and SWD series

Next Generation 365 Day Multi-Function Electronic Time Switches

INTERMATIC	Paragon	Tork	Lithonia
ET70115C (SPDT)	EL71/Series	DT100**	—
*(SPST)	EC7001/208-240V	DT100-2**	—
** (DPDT)	EC7001/277V	DT100-3**	—
	EC7001/208-277V	DZS100**	—
	EC7004/208-240V*		
	EC7004/277V*		
	EC7004/208-277V*		
	EC71/18S/120V		
	EC71D/18S/240V		
	EC71ST/120V		
	EC71ST/240V		
	EC71ST/277V		
	EC71STM/120V		
	EC71STM/277V		
	EC365/C/120V		
ET70115CR (SPDT)	EL71PC/Series	DZS100A	—
	EC71STN3/120V	DZS100A	—
** (DPDT)		DG180	—
		DG180-2	—
ET70115CR24		DG180-3	—
for 24 Volt / 60 Hz		DG100	—
Input only		DG100-2	—
		DG100-3	—
		DG120**	—
		DG120-2**	—
		DZS100**	—
		DZS100-2**	—
		DZS100-3**	—
		DGS100	—
		DGS100-2	—
		DGS100-3	—
		DGS180	—
		DGS180-2	—
		DGS180-3	—
		DGM100**	—
		DGM100-2**	—
		DGM100-3**	—
		DWZ100A**	—

INTERMATIC	Paragon	Tork	Lithonia
ET70215C	EL72/Series	DT200	—
	EC72/120V	DT200-2	—
	EC72/240V	DT200-3	—
	EC72/277V		—
	EC72D/120V		—
	EC72D/240V		—
	EC72ST/120V		—
	EC72ST/240V		—
	EC72ST/277V		—
ET70215CR	EL72PC/Series	DZS200A	—
	EC72STN3/120V	DZS200A	—
ET70215CR24		DZM200A	—
for 24 Volt / 60 Hz		DS200	—
Input only		DS200-2	—
		DS200-3	—
		DZS200	—
		DZS200-2	—
		DZS200-3	—
		DZM200	—
		DZM200-2	—
		DZM200-3	—
ET70415CR	EL74	DZS400A	—
	EC74/50S/120V	DZS400A	—
ET70415CR24	EC74/50S/240V	Z400B	—
for 24 Volt / 60 Hz	EC74/120D/120/240V	Z400B-2	—
Input only	EC74/192MA/120/240V	K400Z	—
		K400Z-2	—
		K401Z	—
		K401Z-2	—
		DIN103A	—
		(3PDT)	—
ET70815CR	EL78	K600Z	LITE-
	EC77/140/120, 240V	K800Z	KEEPER
ET70815CR24		K600Z-2	LK8
for 24 Volt / 60 Hz		K800Z-2	—
Input only		K601Z	—
		K601Z-2	—
		K801Z	—
		K801Z-2	—
ET71615CR	EL712	A1200	LK16
ET71615CR24	EC712/120, 240V	A1600	CK16
for 24 Volt / 60 Hz	EC128		LK32†
Input only			CK32†

IMPORTANT NOTE: Review manufacturer's literature for possible feature differences

Cross Reference

Weatherproof Outdoor Receptacle Covers

Intermatic	Taymac	Carlton	Cooper	Arlington	T&B	Raco	P&S
WP1000C	n/a	E9UVCRN	n/a	n/a	n/a	5752-0*	n/a
WP1000GC	n/a	E9UVGRN	n/a	n/a	n/a	n/a	n/a
WP1000HC	n/a	E9UHCRN	n/a	n/a	n/a	5761-0*	n/a
WP1000HGC	n/a	E9UVGRN	n/a	n/a	n/a	n/a	n/a
WP1000RC	71101*	n/a	n/a	DBV* series	n/a	n/a	n/a
WP1000HRC	n/a	n/a	n/a	DBV* series	n/a	n/a	n/a
WP1010C	n/a	E9UDVCRN	n/a	n/a	n/a	n/a	n/a
WP1010HC	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WP1010HMC	MX3300	n/a	n/a	n/a	CKMD*	n/a	n/a
WP1010MC	MX3200	n/a	n/a	n/a	CKSDV*	n/a	n/a
WP1020C	MM2440C	n/a	n/a	DBUL1DC	n/a	n/a	n/a
WP1030C	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WP1030MC	MX6200*	n/a	n/a	n/a	2CKD*	n/a	n/a
WP1050	MM7440C	n/a	n/a	n/a	n/a	n/a	n/a
WP1100C	MM400C	n/a	WIU-1	DBU1C	CKNM*	n/a	WIUC10CL
WP1110C	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WP1150C	MM740C	n/a	WIU-1D	n/a	n/a	n/a	WIUC10DL
WP1100WC	n/a	n/a	WIU-1W	DBUL1	n/a	n/a	WIUC10WL
WP1110WC	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WP1220C	MM2440C*	E9U2CRN*	WIU-2*	n/a	2CKNM*	5770-0*	n/a
WP1230C	n/a	n/a	n/a	n/a	n/a	n/a	WIUC20CL
WP1250C	MM7440C*	n/a	n/a	n/a	n/a	5789-0	n/a
WP2000	n/a	n/a	n/a	n/a	n/a	n/a	n/a

*Competitive product does not meet all possible device configurations and installation methods that the Intermatic cover handles.

7-Day Electronic Time Switches

INTERMATIC	Paragon	Tork	EZ Controls
ET171C (SPST)	EC7000/120*	ES101, EW101	EZ-701-1
(SPDT)		ES120, EW120*	
	EC7004/120	DG100*, DG180*	EZ-701-1A
		DIN101A*	
ET173C (DPST)	EC7005/120	ES103, EW103	EZ-701-2
			EZ-701-2A
ET174C (DPST)	EC7000/208-240*	ES103-2, ES103-3	EZ-701-72
(SPDT)		ES120-2, ES120-3*	
	EC7000/277*	EW103-2,	
	EC7004/208-240	EW103-3	
	EC7004/277		
	EC7005/120, 208-240		
	EC7005/277		
ET279C (SPST)	EC11 Series*	DGM100**	EZ-701-2M**
*(SPDT) **(DPDT)	EC7001/120*	CD100A, DS200**	
		DIN100*, DIN200*	
ET8115C	EC71/30S/120	E, ES & EW120	EZ-T105
		DG100, DG180	EZ-701-1A
(SPST)		DIN101A	
ET8215C	—	DG120 (DPDT)	—
ET8215C	EC71D/30SM/	DGM100	EZ-701-2M
*(SPDT) **(DPDT)	120*		
EH10††	—	EH10	—
EH40††	—	EH20	—

†† With external load indicator and external load override.

24 Hour Electronic Time Switches

INTERMATIC	Paragon	Tork	EZ Controls
ET100C (SPST)	EC1015P/120*	E101, E120*	EZ-T101
(SPDT)	EC4000/120		
	EC4004/120		
	EC4004P/120		
	EC4004PC/120		
	EC4000P/120*		
	EC4000PC/120*		
	EC11 & 11D/120*		
ET101C (SPST)	—	E101, E120*	EZ-T101
*(SPDT)			
ET102C (SPST)	EC1015P/208-277	E101-2	EZ-T102
(SPDT)	EC4000/208-277		
	EC4004/208-277	E101-3	
	EC4004P/208-277		
	EC4000P/208-277	E120-2*	
	EC4004PC/208-277		
	EC4005P/120, 208-240**		
	EC4005PC/120, 208-240**		
** (DPST)	EC11D/240*	E120-3*	
ET103C (DPST)	—	E103	EZ-T103
ET104C (DPST)	EC4005/120-240	E103-2, E103-3	EZ-T104

Astronomic Electronic Time Switches

INTERMATIC	Paragon	Tork	EZ Controls
ET70115CR† (SPDT)	EC71ST/120	DZS100	EZ-701-2AS
	EC71ST-N3/120V		
	EC71ST/277	DZS100-3	EZ-701-72AS

† Replaces ET816CR and ET833CR.

NOTE: ET70000 Series provides astronomic programming for any circuit(s).

Cross Reference

High Intensity Discharge (HID) Lighting

Intermatic	RAB	Stonco
WL050MH	WP1H50	LPSC50MA-8
WL070MH	WP1H70	LPSC70MA-8
WL100MH	WP1H100	LPM2C100MA-8
WL150MH	WP2H150QT	WPM150MA-8
WL175MH	WP2H175QT	WPM175MA-8
WL250MH	WP3H250QT	WP250MA-8
WL400MH	WP4H400QT	WP400MA-8
WL035HPS	WP1SN35	WNPS35NLXL
WL050HPS	WP1SN50	WNPS50NLXL
WL070HPS	WP1SN70	WNPS70NLXL-8
WL100HPS	WP1SN100	WNPS100NLXL-8
WL150HPS	WP2SH150QT	WPM150NLXL-8
WL250HPS	WP3SC250QT	WP250NLXL-8
WL400HPS	WP4SC400QT	WP400XL-8
FL050MH	FFH50	TLX50NMAL-1
FL070MH	FFH70	SLA70NMAL-1
FL100MH	EZHH100QT	SLA100MAL-8
FL150MH	EZHH150QT	SLA150MAL-8

Intermatic	RAB	Stonco
FL175MH	EZHH175QT	SLA175MAL-8
FL250MH	FZH250QT	SLM250MAL-8
FL400MH	FZH400QT	SLM400MAL-8
FL035HPS	FF35	TLX35NLXL-1
FL050HPS	FF50	TLX50NLXL-1
FL070HPS	FF70	TLX70NLXL-1
FL100HPS	EZSH100	SLA100XL-8
FL150HPS	EZSH150QT	SLA150XL-8
FL250HPS	FZS250QT	SLM250XL-8
FL400HPS	FZS400QT	SLM400XL-8
DD175MV	YLM175	DTDA175NMML-1
DD150HPS	YLS150	DTDA150NLXL-1
FL150Q	QF150	EQX150L
FL300Q	QF300	EQ300L
FL500Q	QF500	EQ500L
WL070HPSPC	WPTS70	TLW70NLXL-1
CP150HPS	VAN5S150QT	LCQ155LXL-8

Electronic Astronomic Time Switches

Intermatic	Paragon	Tork
SPST Astro Time Switches in NEMA 1 Case		
ET8015C	—	—
SPST Astro Time Switches in NEMA 3R Case		
ET8015CR	EC365DST1/120V	—
SPDT Astro Time Switches in NEMA 1 Case		
ET8115C	—	—
SPDT Astro Time Switches in NEMA 3R Case		
ET8115CR	EL71/120V	DWZ100A
	EL71/208-240V	DZS100A
	EL71/277V	
DPST Astro Time Switches in NEMA 1 Case		
ET8215C	—	—
DPST Astro Time Switches in NEMA 3R Case		
ET8215CR	EC365DST2/120V	DW200A
	EC365DST2/277V	DZS200A
	EL72/120V	
	EL72/208-240V	
	EL72/277V	

Electronic Auto-Off Timers

Intermatic	Leviton	Leviton
5-10-15-30 Minute Range		
EI200	6230MI	—
EI200LA	6230MA	—
EI200W	6230MW	—
10-20-30-60 Minute Range		
EI210	6260MI	6560MI
EI210LA	6260MA	6560MA
EI210W	6260MW	6560MW
1-2-4-8 Hour Range		
EI220	—	—
EI220LA	—	—
EI220W	—	—
2-4-8-12 Hour Range		
EI230	6212HI	6512HI
EI230LA	6212HA	6512HA
EI230W	6212HW	6512HW

Cross Reference

Photo Controls

Intermatic	ALR	Tork	Ripley	Mulberry	Precision	Paragon	Fisher Pierce
K4021C	AA105	3000	7001/7011	30850	A105	LB201-00	FA105/FA305/6241A/6210
K4024	AA106	—	—	30851	—	—	—
K4022	AA107	—	—	30852	—	—	6242A
K4033	AA108	—	—	—	—	—	—
K4023C	AA1068	3002	7002/7003/7012/7013	30853	A1068	LB201-71	FA1068
K4035	—	—	—	—	—	—	—
K4321C	AA105W	3010	7105	30855	A105W	LB201W-00	FA105W
K4121C	PT15	2101/2100	—	30825/30820	T-15	CW201-00	6241B/FT15
K4124	AT16	—	—	30827	—	—	—
K4122	AT17	—	—	30829	—	—	6242B
K4123C	PT168/AT368	—	—	—	T-168	CW201-71	FT168
K4133	AT18	—	—	30831	—	—	—
K4135	AT19/PT19/AT39	—	—	—	T-19	—	FT19
K4141C	AT30 (metal)	2105 (polycarbonate)	—	30847	T-30	CW302-00	—
K4221C	SAT15/SPT15	2001/3020	—	30826/30868	ST-15	CW201S-00	SFT15
K4224	SAT16	—	—	—	—	—	—
K4222	SAT17	—	—	—	—	—	—
K4233	SAT18	—	—	—	—	—	—
K4235	SAT19/SPT19	—	—	—	ST-19	—	SFT19
K4236	PT20/SAT168/SPT168	2104/2102/2002	—	30830/30833/3082	ST-168	CW201-71	SFT168
K4121M	AT15	2101	—	—	TL15AL	CW201-00	FT15
K4123M	AT168	2104	—	—	—	CW201-71	FT168
K4136M	AT20	2107	—	—	—	CW201-70	—
K4251	TL115	2021	—	—	ET-15	PN201-00	FL115
K4253	TL168	2022	—	—	ET-168	—	—
LC4521C/K4521	LC120	2003/5001S	—	30834	P-2275/M2275	TL201-00	NFP120/N6401-NS
LC4521LA	BF120/M120	2003S/5021S	7046	—	P2275LA	—	NFP120H/N7760-SSS**
LC4523	LC208-277	2004/5004S	—	30837	P68275	TL201-71	NFP277
LC4523LA	BF208-277/M208-277	2004S/5024S	7049	—	8672**	—	NFP-277H/M208-277
LC4535	—	—	—	30842	P7275	—	—
LC4535LA	BF480/M480	2008D/5008S/2008**	—	—	LM7275/8694**	—	—
LC4536C	—	—	6190**	30844	P26275/8690N**	TL201-70	7790B-NSS**
LC4536LA	BFPV/MPV	2007D/5007S/2007**	—	—	8690**	—	7790B-ESS**/N7790B
K4524	—	—	—	30836	—	—	—
K4522	—	—	—	30838	—	—	—
K4533	—	—	—	30840	—	—	—
K4535	—	2008	—	30842	P7275	—	—
K4023*	AA1068W/AA1068P	—	—	—	A1068W/A1068P	—	—
K1121	—	—	—	—	—	—	—
K1122	—	—	—	—	—	—	—
LC2000	—	2005	6146/6281	—	EC120	—	7760/7762/7790B/7792B
LC2000	—	2007	—	—	EC240,ECDV	—	7770/7772/7790B
Accessories							
K4500	SC10	2500/5500	6005/6007	30846	JP275	SC201-99	NS1038-1
K121	AM1ANB	2223/2224	—	—	603	—	NS47681
K122	AM1A, AM2A, AM2ANB	2421/2422	5925/5926/5927	30862	M2A	TB201-99	NS476-71/NS476-732

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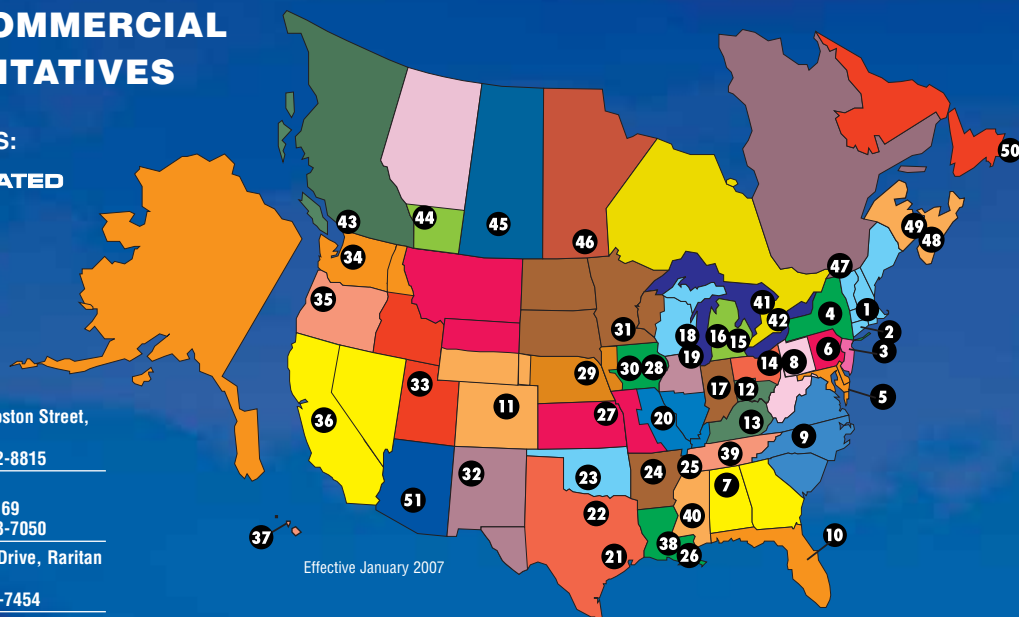


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