

# Single and Multi-Relay Load Control Switches with Optional Measurement and Verification

## Available in single and multi-relay versions for control of:

- » Electric water heaters
- » Air conditioners
- » Class 2 control circuits up to 3 amps / 24 VAC
- » Other loads up to 30 amps / 240 VAC (resistive load)

## Device Features

- » Over four million individual addresses with remote programmability
- » Visual indicators
- » Remote test functions
- » All devices are pre-wired for installation
- » Internal Diagnostics
- » Cold Load Pick-up
- » Receiver Visual Indicators
- » Historical Event Counters
- » Local override and opt-out-Secondary Option

## Power Provider Functionality

- » Control strategies definable for groups, subgroups or individual devices
- » Devices may be assigned to multiple sets of groups and subgroups
- » On-board intelligence for smooth ramp-in and ramp-out of control across the population of devices
- » Interruptable events with smooth ramp-out across the population of devices
- » Customizable control events from various shed/cycling strategies
- » Control events may be targeted for each or all group, subgroup, or individual devices



## SINGLE AND MULTI-RELAY LOAD CONTROL SWITCHES WITH OPTIONAL MEASUREMENT AND VERIFICATION

Circuitry:	Microprocessor-controlled
Non-Volatile Memory:	512K EEPROM
<b>COMMUNICATION OPTIONS</b>	
Type:	Itron GenX Mesh Network Cellular LTE
Other Communication Paths Available:	ZigBee Cisco 900 MHz Mesh Networks
<b>RELAY</b>	
Low Power Relay Output: 2 wires	18 gauge via the device's ½" flexible conduit fitting or ¾" MNPT. One form B contacts with a rating 24VAC @ 3 amps. Length specified at time of order.
High Power Relay Output: 2 wires	12 gauge via the device's ½" flexible conduit fitting or ¾" MNPT, Length and fitting specified at time of order. One (1) Form B Contacts with a rating of 30 amps @ 240VAC (Resistive Load) – other relay options available
Wire Insulation:	600V, 105°C (220°F).
Time Out Duration:	One of 16 preprogrammed intervals from 6 minutes to 120 minutes
Time Out Tolerance:	±10 seconds, +20%/-0%, ±20%, user selectable
Test-on Duration Selection:	Via codes
<b>TEST FUNCTIONS</b>	
<b>Receiver Operation Including</b> Relay Coil Continuity:	LED indication in response to test command signal from a handheld transmitter or load management system transmitter
Propagation Test on LED:	LED indication in response to propagation test signal or load management system transmitter

## SINGLE AND MULTI-RELAY LOAD CONTROL SWITCHES WITH OPTIONAL MEASUREMENT AND VERIFICATION

### LED INDICATIONS

Relay Status:	Relay active
Link Status:	Network connected

### POWER REQUIREMENTS

Power Input:	207 -253 Volts AC; 60 Hz
Input Power Connection: (2 Black) wires	18 gauge via the device's fitting conduit
Wire Insulation:	600V, 105°C (220°F)
Wire:	20 gauge standard UL 1015 Length specified at time of order
Internal DC Power:	+5VDC derived from 240 VAC/10 VAC step down transformer
Power Consumption:	8.5 watts maximum at 240 VAC with full load

### CONTROL DEVICE ENCLOSURE

Type:	High-impact molded Lexan® with neoprene enclosure gasket for raintight operation. Meets NEMA IV requirements with gasket and snap latch construction. Provision for utility meter seal.
Dimensions:	6 3/8 " X 8 3/8" X 2 7/8" – 1 .2 lbs.
Mounting:	Mount in an upright position direct to air conditioner housing or to conduit box. Hangers are a part of the casing, required area is 8" X 8 3/8 " X 8 1/2".
Tinted Lid:	For LED observation

### OPERATING ENVIRONMENT

Relative Humidity:	Up to 95% (non-condensing)
Operating Temperature:	-30°C to 70°C
Storage Temperature:	-40°C to 85°C

### MISCELLANEOUS

Surge Withstand Capability:	Meets and exceeds ANSI C37.90a, 1974 requirements
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All devices are 100% Factory Tested and Inspected in accordance with Factory Acceptance Testing Procedures mutually determined with each utility.

Specifications subject to change

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## SINGLE AND MULTI-RELAY LOAD CONTROL SWITCHES WITH OPTIONAL MEASUREMENT AND VERIFICATION

### INSTALLATION OPTIONS



3/4" NPT Fitting



90° Elbow



1/2" Flexible Seal Tight Fitting



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