



RB104

A10 120/208 VAC, 30A, Box Mount Receiver,
Standard and Extended Addressing

FEATURES

- X10 Standard Code (256 Addresses) and X10 compatible Extended Addressing capability (4096 addresses)
- Two way powerline communication, reports status upon "Status Request" for standard or extended addresses
- Easy Push Button Configuring for Standard Unit Address ON/OFF and:
 - Response to "All Lights On" Command
 - Response to "All Units Off" Command
 - Response to "All Lights Off" Command
 - Returning to its last commanded state on power-up
 - To select 1-16 hours to "Time Out" Relay (Special Order)
- Factory or Field Configuring for Extended Unit Address ON/OFF and:
 - Response to "Status Request"
- Advanced A10 circuitry, X10 Signal Compatible
- On/Off/Auto Switch on Cover
- Terminals inside for connection of remote override switch
- One Form C Electrically Held Relay



APPLICATIONS

- Remote ON/OFF Control of Water Heaters
- Remote ON/OFF control of HVAC and Unitary Equipment
- Fail-safe Units "OFF" after power failure (use N.O. contacts)
- Fail-safe Units "ON" after power failure (use N.C. contacts)
- Control High Current Loads
- Alternate Loads
- Control Parking Lot Lights

PRODUCT DESCRIPTION

The RB104 Unit is an A10 enhanced 120/208 VAC, 50/60 Hz, powerline carrier receiver controlling a single remote Form C Relay capable of switching a 30 amp load.

The RB104 will continuously monitor the powerline for PCC signals, and adjust its gain to filter out line noise. The RB104 will close or open its relay via Standard or Extended X10 command.

The RB104 may be remote controlled by addressing it by its base address or its sub address, or through groups by the commands ALL LIGHTS ON, ALL LIGHTS OFF, or ALL UNITS OFF. These global commands must be configured.

The RB104 will transmit the current relay status when requested.

The RB104 has an external override input. Two wires connect to this input. When the wires make contact, the relay is turned on. When the wires break contact, the relay is turned off.

The RB104 also has a mode switch to allow the user to gain manual control of the relay. ON position turns the relay on, OFF position turns the relay off and AUTO position allows the software to control the relay.

The RB104 may also be configured to remember its relay state upon power up.

The RB104 may be configured with a "time-out" feature, where the state the relay reverts to ON or OFF after a specified period of time. Manufactured under Advanced Control Technologies, Inc.'s U.S. Patent No. 6,229,432.

ORDERING INFORMATION

Specify: RB104

Note: If ordering factory configured extended address products, state quantities, addresses and configuration settings (surcharge applies).

SPECIFICATIONS

Electrical Requirements

Power

Supply Voltage	120/208 VAC, +/-10%
Frequency	50 or 60 Hz
Power Consumption	Less than 4.5W

Signal

Signal Input	X10 Powerline Carrier, sensitive to 50 millivolts
Signal Output (Status)	X10 Powerline Carrier, 6V peak to peak @ 5 ohms
Fuses	Two (2) 5 x 20mm time lag fuses rated 0.5A, 250V (control circuit only), user replaceable (Littlefuse 239,500 or Buss GDC-500mA).

Controlled Output

Form C Relay	Normally open, normally closed and common connections
Resistive	30A, 277 VAC - N.C. or N.O. contacts
Motor	1 H.P., 120 VAC or 1.5 H.P. 200 -600 VAC - N.C. or N.O. contacts
Ballast	120 VAC, 10A - N.C. contact or 30A - N.O. contact 277 VAC, 10A - N.C. contact or 20A - N.O. contact
Tungsten	2A, 120 VAC - N.C. contact or 10A, 120 VAC - N.O. contact
Restive DC	30A, 28 VDC, - N.C. or N. O. contacts

Mechanical Requirements

Power

Three (3) 12" 16 AWG Flying Leads	L1 - Black L2 - Red N - White
One (1) 12" 18 AWG Flying Leads	PCC - Pink

Relay

Three (3) 12" 10 AWG Flying Leads	N.C. - Blue N.O. - Gray COM - Violet
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Remote Manual Override

Connections	Removable Terminal Block with Screw Clamp Connections
Tightening Torque	16 inch-pounds
Wire Size	8 to 18 AWG
Wire Strip Length	5/16"

Enclosure

Dimensions	4.8" L x 4.6" W x 1.25" H
Weight	Less than 16 ounces
Mounting	Hinges/mounts on 4-11/16" x 4-11/16" electrical junction box

Environmental Requirements

Operating Temperature	32 to 120 degrees F
Storage Temperature	-20 to 150 degrees F
Operating Humidity	5% to 95% non-condensing

Specifications may change without notice to improve product performance.