

# USING FOR 120 VOLT? MUST READ!

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SEE OUR DETAILED HOW TO WIRE VIDEO WITH MANY X10 TIPS AND TRICKS: ON YOU TUBE, SEARCH FOR:

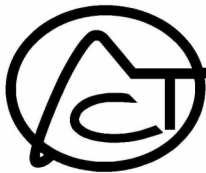
“CR134 X10 TROUBLESHOOTING”. The full video name is “FIXING ALL YOUR X10 PROBLEMS - X10 TROUBLESHOOTING - CR134 CR234 X10 REPEATER + AT004”

THE UNIT HAS DIP SWITCHES INSIDE. ALL DIP SWITCHES ARE CURRENTLY SET TO THE OFF POSITION. **IF YOU WISH TO USE THIS UNIT FOR 120 VOLT SINGLE PHASE, YOU MUST CHANGE DIP-SWITCH #4 TO THE ON POSITION!** WHEN DIP-SWITCH #4 IS OFF AS IT IS NOW, THE UNIT IS IN 3-PHASE MODE. SO CHANGE DIP-SWITCH #4 TO THE ON POSITION SO THAT THIS UNIT WILL WORK FOR 120V NEEDS (SINGLE PHASE 120V).

ALSO YOU WILL NOTICE THAT THERE IS AN EXTRA WIRE FOR 3-PHASE CONNECTIONS. CAP OF THIS WIRE AND DO NOT USE IT.

ALWAYS CONNECT THE WHITE NEUTRAL LEAD FIRST, SINCE POWERING UNIT WITHOUT THE NEUTRAL WILL DAMAGE IT. AFTER WIRING THE WHILE NEUTRAL, CONNECT TWO OTHER LEADS, ONE TO EACH PHASE, AND THEN CAP OFF (do not use) THE 3<sup>RD</sup> WIRE.

WHICH WIRE TO CAP OFF? SEE ENCLOSED INSTRUCTIONS FOR MORE DETAILED HELP. THIS UNIT IS THE NEW REPLACEMENT FOR THE OLDER SINGLE-PHASE ONLY MODEL, AND IS THE MOST ADVANCED UNIT WE SELL.



# CR134/CR334

A10 PCC 120/208 VAC and 277/480 VAC Coupler Repeaters

## FEATURES

- X10 Signal and SCC (Signal Carrying Conductor) Compatible  
Smart SCC - Always enabled. Repeats all signals received on the SCC line only onto connected phases (but not back onto the SCC line). Intelligent control of input/output signals on the signal coupling conductors. Prevents inadvertent signal collisions and signal reflection on the SCC line.
- Status LED's visible on Cover
- Equipped with 12"-16 gauge flying wire leads for connections
- Fuse Protected - Field Replaceable
- Improved receive signal response, higher signal output
- Internal DIP switches can select special features such as:
  - Priority SCC** - Will allow Signal Carrying Conductor signal to take priority over any other code being received.
  - Receive at 0° or 30°** - Either one.
  - Repeat or Ignore Repeated Signal** - "Repeat repeated" enabled repeats all signals including those from other repeaters. "Ignore Repeated" repeats all signals except those from another repeater.
  - Handles Preset Dim commands**
  - Handles X10 Extended Code 1**
  - Repeat on ALL Active Phases/or Repeat on SCC only**
- Adaptable for problem installations.



## APPLICATIONS

- CR134 Repeats powerline carrier transmission signal on all phases of a 120/208 VAC three phase power system, when it is received on one phase or on the Signal Carrying Conductor (SCC).
- CR334 Repeats powerline carrier transmission signal on all phases of a 277/480 VAC three phase power system, when it is received on one phase or on the Signal Carrying Conductor (SCC).

## PRODUCT DESCRIPTION

The CR134 and CR334 are A10 enhanced powerline carrier coupler repeaters for distributing Powerline Control signals to all phases of power. Both have DIP switches that enable the user to customize their operation depending on the application.

Both are housed in a grey painted enclosure that is designed to mount on a grounded 4-11/16" by 4-11/16" electrical box (*provided by others*). LED's in the cover indicate operational modes. Manufactured under Advanced Control Technologies, Inc.'s U.S. Patent No. 6,229,432.

## ORDERING INFORMATION

120/208 VAC - Specify: CR134

277/480 VAC - Specify: CR334

## SPECIFICATIONS

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### Electrical Requirements

#### Power

Supply Voltage - <b>CR134</b>	120 VAC, +/-10%, 50/60 Hz
Fuses (field replaceable)	Phase A (Power): 800mA, 277V (Belfuse MRT series) Phase B & C: 500mA, 277V (Belfuse MRT series)

#### Power

Supply Voltage - <b>CR334</b>	277 VAC, +/-10%, 50/60 Hz
Fuses (field replaceable)	Phase A (Power): 800mA, 277V (Belfuse MRT series) Phase B & C: 500mA, 277V (Belfuse MRT series)

#### Signal

Signal Input	X10 Powerline Carrier on any phase (sensitive to 25 millivolts peak to peak), (SCC) Signal Carrying Conductor (sensitive to 50 millivolts peak to peak)
Signal Output	X10 Powerline Carrier (including SCC), 5V peak to peak @ 5 ohms

### Mechanical Requirements - CR134/CR334

#### Power and Phase

Connection	12" flying leads of 16 ga. insulated wire
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#### SCC

Connections	Plug-in terminal block
Wire Size	12 to 22 AWG
Wire Strip Length	5/16"

#### Dimensions (Enclosure)

4.75" L x 4.75" W x 2.0" H

#### Weight

Less than 16 ounces

#### Mounting

Requires 4-11/16" x 4-11/16" electrical junction box  
(provided by others)

### Environmental Requirements

Operating Temperature	32 to 120 degrees F
Storage Temperature	-40 to 185 degrees F
Operating Humidity	10% to 95% non-condensing

Specifications may change without notice to improve product performance.

## ABOUT CERTIFICATION

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The CR134 and CR334 have been thoroughly tested by the ETL SEMKO division of Intertek, a nationally recognized testing laboratory. This product was found to be in compliance with safety standards ANSI/UL STD 244A and CAN/CSA C22.2 No. 177.

RECOGNIZED COMPONENT

