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**CPR 2-Way and 1-Way  
Time Switch System**

**Application Note Number 7**

## How to read the CPR2102 Time Switch LED indicators and operate the Manual Control feature

**CPR2102**  
2-Way and 1-Way  
Programmable Time Switch

### Manual Control:

The manual push button is used to change the state of the relay output. The relay will remain in the manual state until the next program step. Push a pencil or other non-metallic device through the Manual Control opening to activate the manual push button.

### Erase all Programming:

This button can also be used to erase all programming in the CPR2102 prior to sending program pages. Place all of the Group and Location switches in the down position, the red LED will start to flash. Press and hold the manual push button until the red LED stays on steady. Now reset the DIP switches to the Group and Location numbers. The time switch is now ready to receive program pages.

### Operating (green):

The Operating LED flashes to indicate that power is applied to the CPR2102.

This LED will flash at a fast rate as pages are being received.

This LED will flash at a slow rate starting at midnight on Saturday. The LED will resume the normal flash rate when a page is received. *(this will tell the technician if the CPR2102 is receiving pages)*

### Address Indicator (red):

The Address Indicator will flash steady when the Group and/or Location address switches are set incorrectly. *(see How to set the Group Address switch)*

When the CPR2102 is using its DIP Switch or On-Air Address feature, the Address Indicator will flash a code to indicate the Group and Location number programmed.

### Week Plan (green):

The Week Plan LED will tell you what week plan the CPR2102 is running.

Default Plan (empty) = LED off  
Default Plan (with program) = LED 3 second flash  
Week Plan = LED 1 second flash  
Override Plan = LED on steady

### Relay On/Off (yellow):

The Relay On/Off LED indicates when the relay is energized or de-energized

Manual Control



Operating



Address Indicator



Week Plan



Relay On/Off



### For microprocessors Version 3.0 or higher:

This LED will stay on steady when an invalid or garbled signal is received. The CPR2102 will ignore any invalid or garbled signal and resume running its previous program.