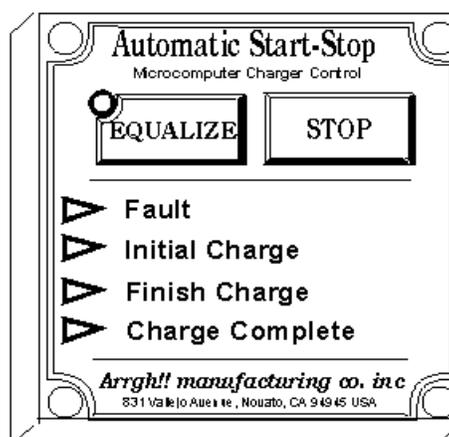
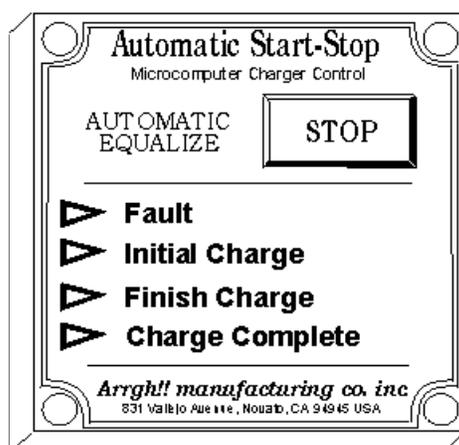


# MCC - Microcomputer Charger Control

## For Lead-Acid Traction Battery Chargers

### Features, Models, Built-In Options, Specifications



## Features

### Easy Installation:

Installation on most chargers is easy - - there are only four wires to connect. Using one screw on the back, the MCC attaches to the outside of the charger to remain cool for long life.

### Automatic Operation:

Simply connect the battery and walk away - no dials to twist or settings to adjust. (To avoid impact or contamination damage, you can locate your charger out of reach.) Display lights indicate the charge status. If the battery is disconnected during charge, the MCC will turn the charger off. Should the ac power go off, the MCC will restart most chargers when power returns. Minimum charge time is normally 60 minutes.

### Microprocessor Controlled:

The heart of the MCC is the software inside the microprocessor. This software gives the MCC its accuracy, reliability and long life. It allows the MCC to handle various battery / charger combinations.

### Diagnostics:

In the event of a charger problem or a defective cell, the MCC will turn the charger off and indicate the problem. Backup timers limit the initial charge time to 9-1/2 hours and total charge time to 15-1/2 hours.

### **Equalize Charge:**

Fast recharging does not permit complete chemical re-conversion of all the active material in all of the battery's plates. For long life, therefore, batteries periodically need a short, controlled overcharge to prevent plate sulfating. Normally this equalize charge is given once a week, or every fifth charge. MCC models offer a choice of automatic or manual equalize methods.

## **Models**

**A. Automatic Equalize model** -- recommended for most operations. When the battery is left connected for 18 hours after completion of the regular charge, as over a weekend, the MCC automatically turns the charger back on and provides a precisely correct equalize charge. The 18-hour cool-down period allows the battery's chemistry to stabilize before equalizing begins.

**B. Manual Equalize model** -- for operations where there is insufficient time to wait for an 18 hour cool-down period after the regular charge. This model has an equalize button that, when pressed, starts the equalize charge immediately after completion of the regular charge.

**C. Dual-Relay model** -- for special chargers that use a "boost contact" to raise the charging rate during finish charge. Automatic or manual equalize available.

## **Built-In Options**

**A. Delayed-Start**, of 1 to 6 hours, allows the battery to cool down before charging, postpones charging to off-peak hours to save on electricity cost, and can prevent boost charging during work breaks.

**B. Opportunity Charging** is designed for light duty and intermittent applications where the battery is seldom fully discharged before recharging. Minimum charge time -10 minutes.

**C. Maintenance Charging** is ideal for batteries left unused for long periods of time. When the battery's voltage self discharges to 80% of full charge, the charger turns on, brings the battery back to full charge, then turns off again.

## **Specifications**

- Size:** 3-1/4 x 3-1/4 x 3/4 inches (83 x 83 x 19mm)
- Mounting:** One screw (included).
- Power:** By the battery's dc. Maximum consumption is 28 milliamps.
- Line Contactor:** Required by chargers drawing more than 10 amps ac.
- Voltages Available:** 12 to 250 volts dc (6 to 125 cells).