

# MASTER CLOCKS

## MC81LV

**CONTROL SECONDARY CLOCKS, RING BELLS,  
MANAGE FACILITIES ... EASY AND ECONOMICAL.**



**EIGHT ZONES**

**UP TO 10 SCHEDULES**

**EASY - AUTOPROMPT PROGRAMMING**

**CONTROLS ALL MAJOR BRANDS OF  
SECONDARY CLOCKS.**

**200 POWERFUL PROGRAM STEPS.**

**UP TO 100 EVENTS PER DAY.**

**UP TO 10 - SEVEN DAY PLANS**

**20 ANNUAL PROGRAMS**

**Power Fail Back-up. Keeps Time and Program for Indefinite Power Outages.  
No Batteries Required!**

**Programmable, Automatic Daylight Savings Time, and Leap Year Adjustment.**

**8 Relay Outputs - Rated at 15 Amps, Latched or 0-9 Second Momentary Operation.**

**Low Voltage Operation (24 Vac), or Use The 120 VAC Power Module Supplied.**



**APPLIED  
TECHNICAL  
SYSTEMS**

**800-444-7161**

**FAX: 318-797-4864**

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## **DESCRIPTION**

The MC81LV Master Clocks provide accurate time keeping for controlling of secondary clocks , bells and other electrical loads. The four, independently programmable relay circuits can be used for timed event programming, or for controlling secondary clocks. When controlling secondary clocks, 2 of the 8 relays are reserved for controlling the secondary clocks leaving 6 relays for ringing bells or controlling loads. Program memory can be adjusted to meet any specific application with up to 100 events per day, and up to 9 alternate 7 day plans or schedules for a total of 200 steps. Each program step can address any combination of the relay outputs, for any day of the week, including groups of days such as Monday, Wednesday and Friday, or Monday through Friday.

## **SPECIFICATIONS**

### **PROGRAMMING CAPABILITIES**

*EASY TO USE* - 32 character alphanumeric, LCD display and "Auto Prompt" software provides display information to guide the operator during programming.

*200 POWERFUL PROGRAM STEPS* - Provides time, day or days of the week, and selected relays for each event.

*UP TO 10 - SEVEN DAY PLANS* - 1 default plan and up to 9 alternate plans, each can have up to 100 steps.

*20 ANNUAL PROGRAMS* - Schedules the alternate plans with specific Start and End dates.

*PROGRAMMABLE DST ADJUSTMENT* - The MC81LV Master Clocks can be programmed to automatically adjust their time for Daylight Savings Time changes according to U. S. law, even if the law changes.

### *AUTOMATIC LEAP YEAR ADJUSTMENT*

*MANUAL OVERRIDE* - The output relays can be manually energized or de-energized from the keyboard.

*PULSED / MOMENTARY OUTPUTS* - The outputs can be individually programmed to operate as a momentary contact, programmable from 1 to 9 seconds.

*POWER FAIL BACKUP* - Program and time keeping are maintained for in the event of a power failure. The relay outputs and the display are disabled during backup.

*TIME KEEPING* - Synchronous with the AC power line. During a power failure it is quartz crystal controlled with an accuracy of +/- .003% throughout its full temperature range.

*PROGRAMMED EVENTS* - On/Off events are programmable with a one minute resolution and occur at the zero second of that minute.

### **ELECTRICAL / PHYSICAL**

Power: 24 VAC Powered 20 TO 28 VAC, 60 HZ (50HZ Optional). A 120 VAC to 24 VAC A Power Module is provided for 120 VAC operation.

Outputs: Eight SPDT relays rated at 15 A resistive at 48 VAC or 24 VDC.

Wiring: Two multi-pin connectors with mating 48" cables.

Accuracy: AC Line synchronous. .003% crystal time base during power outages.

Size: 4.75" W x 8" H x 3.2" D.

Weight: Approximately 3 lbs.

Mounting: Mounting holes provided.

Operating Temperature Range: -30 to +74 C.

**FOR ASSISTANCE CALL 800-444-7161**

