



Cygnnet Aerospace Corp., P.O. Box 6603, Los Osos, CA 93412
WWW.CYGNET-AERO.COM

CA-MB800 Digital Clock

- Greenwich Mean Time
- Local Time
- Elapsed Time Count-Up
- Elapsed Time Count-Down
- W/Opt. Alarm

MB800 OPERATION

The SELECT button selects what is to be displayed and the CONTROL button controls what is displayed. The SELECT button sequentially selects GMT, LT, ET, and back to GMT. The CONTROL button starts and resets elapsed time, ET, when momentarily pushed. The normal operation of the MB800 cannot result in accidental time setting.

SETTING GMT

Select GMT for the display with the SELECT button. Press SELECT and CONTROL simultaneously to enter set mode. The tens of hours digit will start flashing. The CONTROL button controls the flashing digit and each button push increments the digit. Once the flashing digit is set the SELECT button selects the next digit to be set, from left to right across the display. After the last digit is set a final press of the SELECT button will exit the clock from the set mode. The display annunciator will resume its normal flashing to indicate the clock is running.

SETTING LT

Select Local Time, LT, using the SELECT button. Enter the set mode by pressing both buttons, the tens of hours digit will start flashing. The setting operation is the same as GMT except that minutes are already synchronized with GMT and cannot be set in LT.

TEST MODE

Hold the SELECT button down for 3 seconds and the display will read 88:88. All three annunciators will be on.

ET COUNT UP

Select ET for display. Pressing the CONTROL button will start ET counting up in minutes, seconds until reaching 59 minutes and 59 seconds. ET will then start counting in hours and minutes up to 99 hours and 59 minutes. Pressing CONTROL again will reset ET to zero.

ET COUNT DOWN

Select ET for display, enter set mode by pressing both buttons. The countdown timer can now be set. Entering the time is identical to GMT time setting. When the time is entered and the last digit is no longer flashing the clock is ready to start counting down. Momentarily pressing the CONTROL button starts the countdown. When the count reaches zero the displays flash and the external alarm is activated. Pressing either SELECT or CONTROL will deactivate the alarm. ET continues counting up.

FIELD OPTION CHANGES

When changes are made the clock must be grounded to the soldering iron or warranty may be void.

LOCAL TIME: LT may be switched from 12 to 24 hour format by removing the case and jumpering 24.

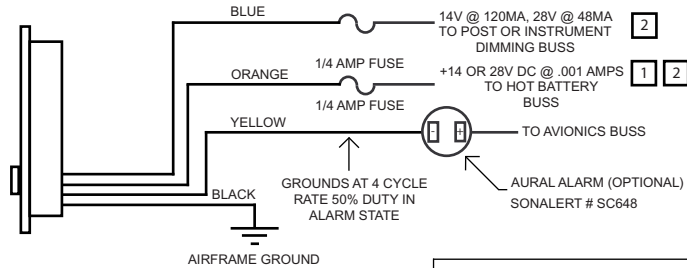
INTERNAL LIGHTING: The internal lighting can be changed from 14V to 28V. Replace the two OL-1089 (14V) bulbs with OL-6838 (28V) bulbs.

KEEP ALIVE INPUT: 14V or 28V

ALARM OUTPUT: Open collector 25 MA

CA-MB800 DIGITAL CHRONOMETER

MODEL 800 SERIES CLOCK



NOTES:

- 1 FOR CLOCK USING OPTIONAL MEMORY BATTERY CONNECT TO AVIONICS BUSS
- 2 PLACE FUSES AS CLOSE TO POWER BUSS AS POSSIBLE

ELECTRICAL INSTALLATION

DAVTRON INC.

427 HILLCREST WAY REDWOOD CITY, CA 94062
(650) 369-1188

DATE

8/16/86

DRAWING NO.

800-005

SPECIFICATIONS

GMT TIME: 24 hour format.

LOCAL TIME: 12 hour format, 24 hour option offered.

ELAPSED TIME COUNT UP: Starts in minutes, seconds, then hour, minutes up to 99:59 hours.

ELAPSED TIME COUNTDOWN: Settable from one second to 59 minutes, 59 seconds.

ELAPSED TIME ALARM: Activates at zero when counting down.

INTERNAL LIGHTING: 100 MA. at 14 Volts, 50 MA. at 28 Volts.

KEEP ALIVE CURRENT: .0003 Amps. 14V, .001 Amps. 28V

VOLTAGE: 14V or 28V; specify when ordering.

CRYSTAL REFERENCE: -40 C to +60 C .001%

WARRANTY: 1 year

Electrical Components Manufactured By Davtron Inc.

CONTINUING AIRWORTHINESS STATEMENT

For continued airworthiness: If installed, replace clock batteries at intervals per manufacturers recommendation or annually, whichever comes first.

See AC 20-94 "Digital Clock Installation in Aircraft" for further guidance in digital clock installation.