

DIGITAL CLOCK

GREENWICH MEAN TIME
LOCAL TIME
FLIGHT TIME - Flight Time Alarm
ELAPSED TIME - Count Up, Count Down, Alarm



ACTUAL
SIZE



M877
Incandescent Display

FEATURES

- Two button control system is natural and error free. Setting operations are identical for both alarm and time setting.
- Bright sunlight readable incandescent displays.
- Illuminated buttons and annunciators for night viewing.
- Flight Time recorded in hours and minutes or in hours, tenths, and hundredths.
- Flight time alarm with external output.
- Elapsed time count down timer with alarm.
- A 4 MegaHertz crystal precision time reference.



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Normal Operation

The SEL button selects what is to be displayed on the four digit window and the CTL button controls what is being displayed. Pressing select sequentially selects GMT, Local Time, Flight Time, Elapsed Time and back to GMT. The CTL button starts and resets Elapsed Time when momentarily pushed. Normal operation of the 877 cannot accidentally reset time.

Setting GMT

Select GMT for display in the four digit window with the SEL button. Simultaneously press both the select and control buttons to enter the set mode. The tens of hours digit will start flashing. The control button has full control of the flashing digit and each button push increments the digit. Once the tens of hours is set, the select button selects the next digit to be set. After the last digit has been selected and set with the control button, a final push of the select button exits the mode. The lighted annunciator will resume its normal flashing, indicating the GMT clock is running.

Setting LT

Select Local Time, LT, using the SEL button. Simultaneously push the SEL and CTL buttons to enter set mode. The tens of hours digit will start flashing. The set operation is the same as for GMT, except that minutes are already synchronized with the GMT clock and cannot be set in Local Time.

Control/Select Disable

When there is no aircraft power applied to the clock CTL and SEL buttons are disabled.

Setting Flight Time Alarm

When Flight Time, FT, is displayed enter the set mode by pressing both buttons simultaneously. The alarm time is entered identically to GMT setting. When the Flight Time equals the alarm time the display will flash and the alarm output activated. If FT was not being displayed at the time the alarm becomes active, the clock automatically selects FT for display. Pressing either the SEL or CTL buttons turns off the alarm. Flight Time is unchanged and continues counting.

Flight Time Reset

FT must be displayed when resetting. Hold CTL down for 3 seconds, or until 99:59 or 99:99 appears on the display. The digits that appear depend on how the clock is programmed, in hour and minutes, or in hours, tenths and hundredths. Flight Time will be zeroed upon release of the CTL button.

Elapsed Time Count Up

Select ET for display. Pressing the CTL button will start ET counting. Elapsed Time counts up to 59 minutes, 59 seconds, and then switches to hours and minutes. It continues counting up to 99 hours and 59 minutes. Pressing the CTL button again resets ET to zero.

Elapsed Time Count Down

Select ET for display and 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 the countdown. Momentarily pressing the CTL button starts the countdown. When the count reaches zero the displays flash and the external alarm is activated. Pressing either SEL or CTL will deactivate the alarm. ET continues counting up.

Test Mode

Hold the SEL button down for three seconds and the display will indicate 88:88 and activate all four annunciators.



Greenwich Mean Time



Local Time



Flight Time



Elapsed Time

STANDARD AND OPTIONAL FEATURES

Local Time 12 hour format, 24 hour option.

Flight Time in standard format of hours, minutes, (99:59) or optional format of hours, tenths and hundredths up to 99:99.

Flight Time Settable Alarm when FT reaches programmed alarm time the display flashes and the external alarm output is activated.

Elapsed Time Count Up counts in minutes and seconds up to 59 minutes and 59 seconds and then changes to hours and minutes up to 99 hours and 59 minutes.

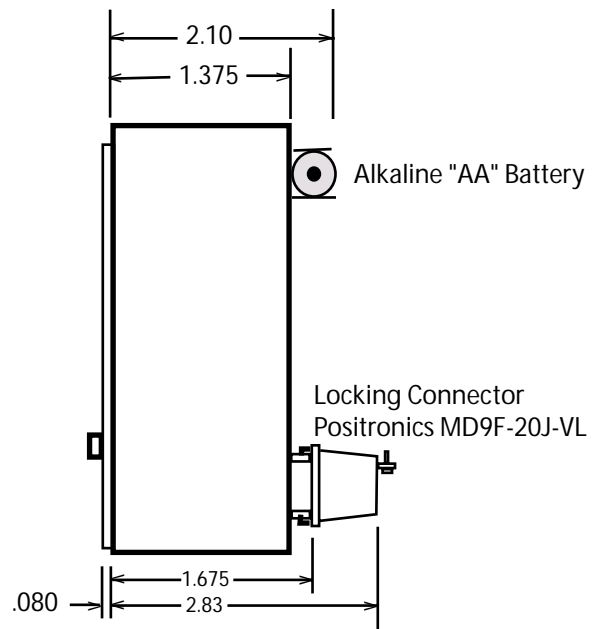
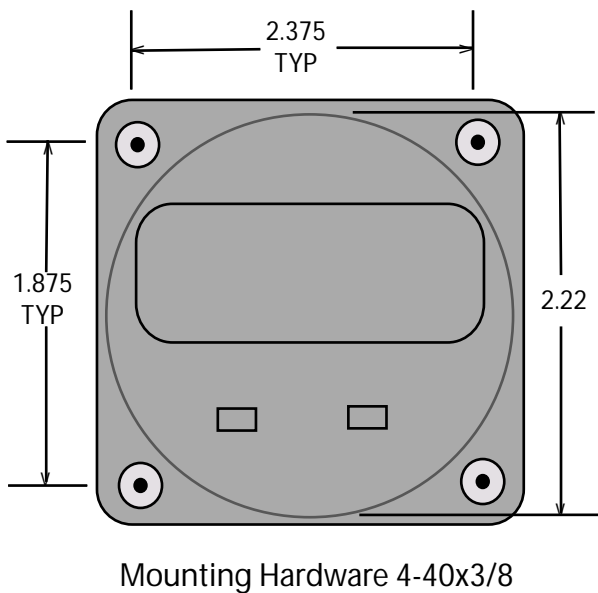
Elapsed Time Count Down may be set to count down anywhere from one second to 59 minutes and 59 seconds.

Elapsed Time Alarm activates when the count down time entered reaches zero, the display flashes and the external alarm output is activated.

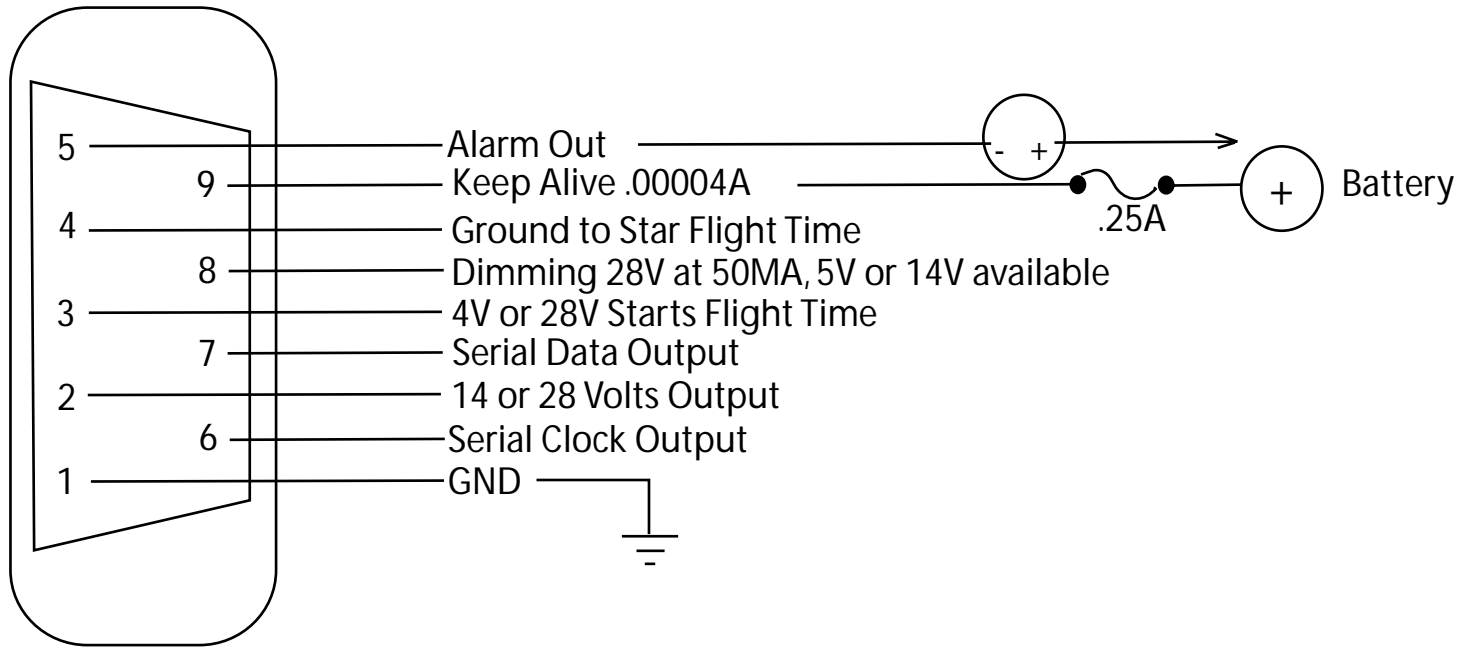
Battery is a longlife AA alkaline cell. The recommended change interval is two years.

Note: Battery can be easily removed and replaced without removing clock from aircraft. Battery holder is polarity marked with red end positive (+).

MECHANICAL



ELECTRICAL



NOTE: Keep Alive (PIN 9) is only required if alkaline AA battery is removed. Flight Time Starts with either Pin 3 or 4 - use only one pin.

SPECIFICATIONS

- Greenwich Mean Time (GMT): 24 hour format.
- Local Time: 12 hour format, 24 hour option.
- Flight Time: Records in 99:59 standard, 99:99 hour option.
- Flight Time Alarm: Full set range flight time.
- Elapsed Time Count Up: Starts in minutes, seconds, then hours, minutes up to 99:59 hrs.
- Elapsed Time Count Down: Settable from one second to 59 minutes, 59 seconds.
- Elapsed Time Alarm: Activates at zero when counting down.
- Incandescent Displays: Readable in sunlight.
- Automatic Dimming
- Battery Type: AA alkaline.
- Polarizing Filter
- Keep Alive Current: .00004 Amps.
- Input Current: .2 Amps.
- Input Voltage: 28V (14V or 5V backlight available)
- Crystal Reference: -40C to +60C .001%
- Weight: 5 ounces.
- Warranty: 1 year.

PRICE

M877 - \$490.00



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