

# Digital Clock

The Digital Clock from The Real Cockpit range of products is replicated from the original Davtron 803 Digital Clock especially for Flight Simulator purposes.

The functionality is exactly like the original, therefore you can even use the original product manual!

- ✓ Display annunciations for UT, LT, FT and ET
- ✓ Flight time recorded in hours and minutes
- ✓ Flight time alarm
- ✓ Elapsed time count down alarm



## Clock Features

One button control steps sequentially through E,F,C:  
E- Voltage (EMF)  
F- O.A.T. Fahrenheit  
C- O.A.T. Centigrade  
Always selects to read voltage on power up for battery status check.  
Working Voltage = 5 volts  
Displayed Voltage - 14 or 28 Volts (depending on flight simulator software).  
Internal Lighting 5v  
2.25" standard mount

## Features O.A.T./Volts

### Operation

The SEL button selects what is to be displayed and the CTL button controls what is being displayed. Pressing SEL sequentially selects Local Time, Flight Time, Elapsed Time, and back to UT. The CTL button resets Flight Time, FT, back to zero when held down for 3 seconds. The CTL button also starts and resets Elapsed Time when momentarily pushed. Normal operation of the 803 cannot accidentally reset time.

### Setting UT

Select UT for display with the SEL button. Press simultaneously both the SEL and CTL buttons to enter set mode. The tens of hours digit will start flashing. The CTL button has full control of the flashing digit, and each button push increments the digit. Once the tens of hours is set the SEL button selects the next digit to be set. After the

last digit has been selected and set with the CTL button, a final push of the SEL button will resume its normal flashing indicating the UT 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 UT, except that the minutes are already synchronized with the UT clock and cannot be set in Local Time.

### Control/Select Disable

When there is no aircraft power applied to the clock the 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 UT setting. When the Flight Time equals the alarm time the display will flash as alarm indication. If FT is 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 appears on the display. Flight Time will be zeroed upon release of the CTL button.

### ET 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 simultaneously. A count down from any time, a maximum of 59 minutes and 59 seconds, can be set. The time is entered the same as UT setting. Once the set mode and the clock is ready to start the countdown. Pressing the CTL button now will start the countdown. The alarm becomes active at zero, flashes the display and enables the external alarm. Pressing either button, SEL or CTL, will reset the alarm. After reaching zero the ET counter will count up.

## Test Mode

Hold the SEL button down for 3 seconds and the display will indicate 88:88 and activate all 4 annunciators.

## O.A.T. & Volts Operation

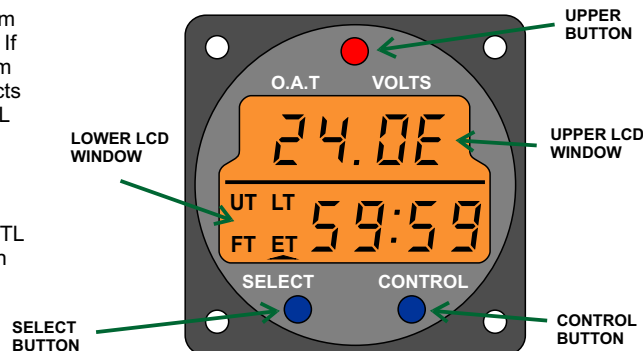
The one red button control steps through E, F and C and then repeats. The initial power up will always select Voltage.  
One press and release will select Outside Air Temp in Fahrenheit. The next button operation selects Outside Air Temp in Centigrade.

## Flight Simulator Operation via CCU

The Digital Clock must be connected to the "Central Control Unit" via a flat cable (the flatcable is included in the package) in order to operate.

## Flight Simulator Operation via special Digital Clock Controller

When you would like to operate the Digital Clock without the Central Control Unit, there is a special controller available which connects to the Digital Clock via its connector and to your PC via USB. A software driver for Microsoft FS2002 and FS2004 is included (you will need FSUIPC from Pete Dowson in order to operate this product with Microsoft FS2002/FS2004). For programmers, we have an SDK available to write your own interface program for any flight simulator software.



The Digital Clock for Flight Simulation is a product of TRC Development - The Netherlands.  
[www.therealcockpit.com](http://www.therealcockpit.com) - [www.simkits.com](http://www.simkits.com)