

MODEL100 - 12/24Volt
GENCLOCK
By Flight Systems Inc.
User Manual

Installation

Mounting

The GENCLOCK requires a minimum 2.5" long piece of 35mm x 7.5mm DIN rail to mount to.

Power

The clock power supply requires a supply current of 1/2 AMP MIN and a supply voltage of 10V AC/DC MIN and 35V AC/DC MAX. Power is applied to terminals "1" and "2" with no concerns for polarity. **NOTE: make sure all hardwired battery chargers are disabled before removing or disconnecting batteries. Failure to do so can produce a high voltage spike on the positive battery bus, that that will damage the clock!**

Output

The output from the clock is taken from terminals "3" (common), "4" (normally open), and "5" (normally closed). These are dry contacts that are rated for 10 amps at 250V.

Battery Backup

The control uses a CR2032 battery to keep time and exercise settings during brief power failures. The amount of time that the backup battery will power the clock varies. During such an event, the display and output will be disabled to conserve power, but the clock will continue to keep time. If the unit is going to be disabled for an extended period of time, remove the battery cover and pull out the battery.

Initially the battery or battery cover is not installed. Install the included battery into the top of the clock, in the slot provided. Then, snap in the battery cover. If you want to test the condition of the battery, check the voltage from the top of the battery holder to the small pad marked "GND" on the base circuit board. You should see 3.2V to 2.6VDC, any lower and you should replace the battery.

NOTE: If you notice the clock losing time or booting up in programming mode after a brief loss of power, the battery is weak and should be replaced.

Programming Mode

On initial power up the control will boot up in programming mode. Before the clock will become active, you will have to adjust your desired settings and advance until you get to the normal display screen. Programming mode can also be achieved by using the RESET option (press and hold the STEP and ENT buttons while in the normal display screen). While in programming mode, the clock stops, and the output is disabled. You can use this feature as an Emergency Stop. Leaving the clock in the programming mode will disable the clock and it will not become active until you have advanced to the normal operating screen.

1. Set 12/24hr configuration

On initial power up, or using RESET, the clock will ask you to set the time configuration for 12 or 24HR. Use the DWN/UP buttons to change and then press ENT to accept and advance to next screen.

2. Set hours

The next screen that will appear will ask you to set the current hour. Again, use the DWN/UP buttons to reach desired hour and press ENT to accept and advance to the next screen.

3. Set minutes

The next screen will ask you to set current minutes. Use the DWN/UP buttons to reach desired minutes and press ENT to accept and advance to the next screen.

4. Set day

The next screen will ask you to set the current day. Use the DWN/UP buttons to reach the desired day and press ENT to accept and advance to the next screen.

5. Set exercise hour

The next screen will ask you to set the exercise start hour. Use the DWN/UP buttons to reach the desired hour and press ENT to accept and advance to the next screen.

6. Set exercise minutes

The next screen will ask you to set the exercise start minutes. Use the UP/DWN buttons to reach the desired minutes and press ENT to accept and advance to the next screen.

7. Set exercise day

The next screen will ask you to set the exercise day. Use the DWN/UP buttons to reach the desired day and press ENT to accept and advance to the next screen.

8. Set exercise duration

The next screen will ask you to set the exercise duration in minutes. Use the UP/DWN buttons to reach the desired minutes (5-minute increments / 300 minutes max) and press ENT to accept and advance to the next screen.

9. Set exercise week interval

The final programming screen will ask you to set the exercise week interval. Use the DWN/UP buttons to reach the desired interval (1-week increments / 6 weeks max) and press ENT to accept and advance to the normal operating screen. **NOTE:** the first exercise event will occur in the first week regardless of the interval setting. Following events will then follow the chosen interval.

Normal Operating Screen

The normal operating screen will display the current day and time. When an exercise occurs, "RUNNING" will appear at the bottom of the screen.

STEP

By pressing STEP, you can go to the exercise setting screen. Here you can review the exercise start day, time, weekly interval, and duration. Press STEP again to go back to the normal screen or the screen will eventually revert back after a timed delay.

RESET (STEP and ENT)

By pressing and holding STEP and ENT (from normal screen only), you can go back to programming mode to adjust or change settings or to use to disable the clock, as previously stated. ***NOTE: Entering RESET will automatically turn off the output and clear all interval counts.***

If you have issues with the clock, please contact:

Troy Graybill
Flight Systems Inc.
(717) 590-7330 tgraybill@flightsystems.com



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