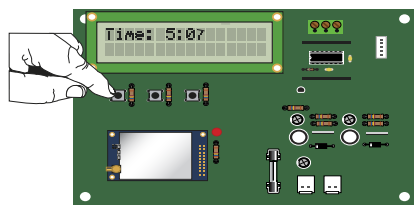


Time & Temp Display

Seven Segment LED SERIES

Initialization Instructions



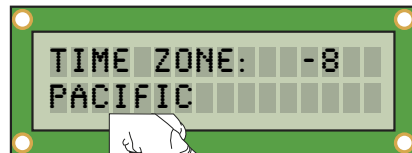
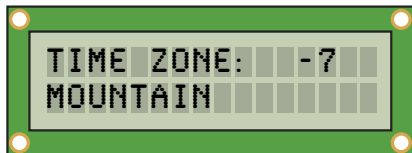
Toggle Display Modes

Pressing the Up or Down buttons will toggle between the Time & Temp main screen and the full time and date display.

Pressing **Menu** will take you to the next configuration menu.

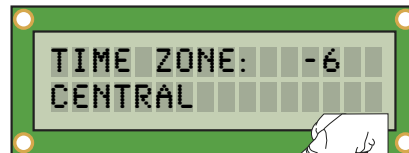
GPS: A = Active - good signal, GPS is updating the clock
 GPS: V = Invalid - poor signal quality, updates not available
 GPS: X = A minor error has occurred, or no signal is present.

If GPS: X appears for several continuous hours, ensure that the GPS Status LED is flashing, and that the antenna is properly connected.



Decrease Example

Pressing Down has moved the time zone west to Pacific Time.

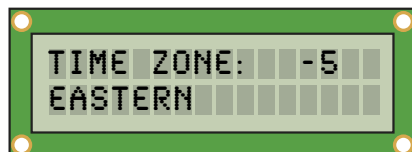


Increase Example

Pressing Up twice has moved the time zone east from Pacific, past Mountain, to Central Time.

Setting Time Zone

Pressing Menu will take the user into the Time Zone setting. Scroll through the selectable time zones by pressing Up and Down.



Welcome Screen

Automatically clears after 2 seconds.

Time Zones

Available input:
 Hawaii (GMT -10) Alaskan (GMT -9) Pacific (GMT -8)
 Mountain (GMT -7) Central (GMT -6) Eastern (GMT -5)

Temperature Offset

Pressing Menu again enables you to choose a temperature offset. Use Up to increase the offset and Down to decrease the offset.



Temperature Offset

Temperature offset range in degrees:
 - From -10 to 10 degrees.

Calculate Daylight Savings Time

This is done automatically. DST calculation is optional. Up and Down toggle between Yes / No.



Calculate Daylight Savings Time

Available input:
 - Yes
 - No

Degrees Measurement Scale

This allows the user to choose Celsius, Fahrenheit, or both Celsius and Fahrenheit scales. Up and Down can be used to scroll through these three options.



Degrees Measurement Scale

Available input:
 - Celsius
 - Fahrenheit
 - Both

Show Time/Temp/Time & Temp

The sign can display the time only, temperature only, or alternate between time and temperature. Up and Down are used to scroll through these three options.



Show Time/Temp/Time & Temp

Available input:
 - Time
 - Temp
 - Time and Temp

Flash Rate

The flash rate is the rate (in seconds), at which the sign changes between time and temperature. (Only if the "time and temperature" setting is chosen). Up increases the rate and Down decreases the rate. This also determines how often the display updates.



Flash Rate

Flash rate range:
 - From 1 to 10 seconds

LCD Contrast

This determines the level of contrast for the LCD display. It is recommended that the contrast level is not set any lower than 4, as the display will become impossible to view.



LCD Contrast

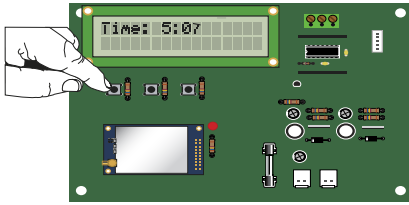
Contrast range:
 - From 4 to 10
 Note: Do not lower contrast below 4. Below 4 the display becomes unreadable.



Time & Temp Display

Seven Segment LED SERIES

Initialization Instructions



Toggle Display Modes

Pressing the Up or Down buttons will toggle between the Time & Temp main screen and the full time and date display.

Pressing **Menu** will take you to the next configuration menu.



Setting Sign Address

This is used to change the sign address. Up increases the address and Down decreases it.

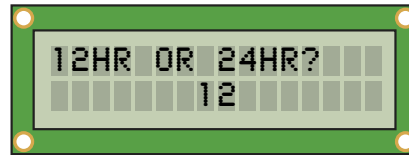


Setting Sign Address

Sign address range:
- From 1 to 255

Setting Hours Format

This determines if the sign will display the time in 12hr or 24hr format.



Setting Hours Format

Available input:
12, 24

Set Time

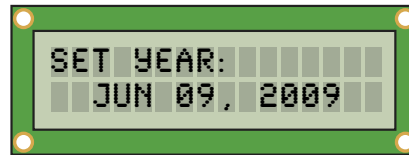
Choose Yes to input a new time and date. Selecting No will move to the Attempt Forced GPS Update screen.



Set Time

Available input:
Yes, No

Set Year



Set Year

Available input:
00 - 99

Set Month



Set Month

Available input:
Jan - Dec

Set Date



Set Date

Available input:
0 - 31
Maximum value depends on year and month entered.

Set Hours

In this screen, the hours are shown in 24hr format. This is only used internally, and will not affect the 12/24hr display choice set previously.



Set Hours

Available input:
0 - 23

Set Minutes



Set Minutes

Available input:
0 - 59

Set Seconds

Pressing Menu after inputting this value will write all of the date and time information to the realtime clock chip, followed by an immediate return to the main display screen.



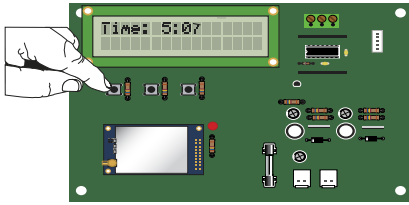
Set Seconds

Available input:
0 - 45, in 15-second increments.
Advancing past 0 or 45 will decrement or increment the minutes.

Time & Temp Display

Seven Segment LED SERIES

Initialization Instructions



Toggle Display Modes

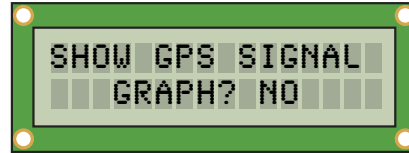
Pressing the Up or Down buttons will toggle between the Time & Temp main screen and the full time and date display.

Pressing **Menu** will take you to the next configuration menu.



Show GPS Signal Graph

Select Yes to display a bar graph of the relative signal strength from each of the satellites in view.
Press Menu to return to the main screen.



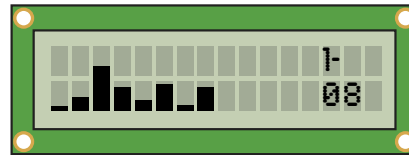
Show GPS Signal Graph

Available input:
Yes, No

Signal Graph

This is the bar-graph display of the Signal-Strength. A rotating line indicates that the signal is being processed. Also displayed is the number of satellites which the GPS module should presently have in view, based on its internal almanac data. This number will range from 0-12, with 7-10 being typical.

However, it may not always be able to receive a signal from all of them.



Signal Graph

Available input:
Press Menu to exit.
Alternates between "1" and "-"