Coding Example for QRP-Labs Clock
with QLG1 GPS and 4-line Display

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All clock settings (with optional temperature sensors installed) remain at defaults EXCEPT:

- Personal 4-line coding (see below)
- Temp1 and Temp2 calibrations (Mine were 099/144)
- GPS (Mode) 2  (Baud) 009,600 [IF GPS INSTALLED]
- Local Offset -420 at the time this document was prepared (Pacific Daylight Time)

In the following coding:

- I have used “x” to indicate a space. (The space character follows the Z in the push button sequence.)
- I have used the “■” to indicate the “Delimiter”. (In the push button sequence, this character follows the “#”.)
- I have put *PLAIN TEXT* to distinguish it from the control “Tags”.
- I have put *CONTROL TAGS* in bold
- I *strongly* recommend that you save & test the coding after each line is programmed.

**Line 1:**
```
x#DDx#DMx20#DYxUTCx#NDx#NMx20#NYxLOCAL
```
Eg: 22 Oct 2018 UTC then it scrolls to
21 Oct 2018 LOCAL

**Line #2**
```
xxx#HH:#MM:#SSxUTCx#xxx#LH:#LM:#LSxLOCAL
```
eg: 01:54:52 UTC then it scrolls to
18:54:45 LOCAL

**Line #3**
```
xxxOUTSIDExTEMPx#T1C■xxxINSIDExTEMPx#T2C
```
eg: OUTSIDE TEMP 10.5C then it scrolls to
INSIDE TEMP 18.8C

**Line #4**
```
xLONGx#LNx#xxLATx#LTx#xxxxxALTx#ATMx#xxVE7TKxx#M6
```
eg: LONG: 123 22 3505W then it scrolls to
LAT: 48 28 9811N then it scrolls to
ALT 62.4M then it scrolls to
VE7TK   CN88HL

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Using Firmware c1.02a
Here’s a sequence of 4 screens. Lines 1, 2 and 3 cycle through pairs of data every 3 seconds. Line 4 cycles through 4 items where each item is displayed for 3 seconds. (3 seconds is the default setting for Line x Pause.)

**Screen 1:** UTC date/time and Outside temperature

**Screen 2:** Local date/time and inside temperature

Lines 1, 2 and 3 are synchronized and change every 3 seconds and then they repeat.

Line 4 displays 4 items – Longitude, Latitude, Altitude and Maidenhead indicator. Each of these 4 items is displayed for 3 seconds and then they repeat. The Altitude and Maidenhead screens are shown in Screen 3 and Screen 4 below.

**Screen 3:** Line 4 shows the Altitude (altitude accuracy is very poor)
Screen 4: Line 4 shows the Maidenhead

For the clock housing I used an air tight refrigerator storage dish.

*Inter-Design Kitchen Binz*

6.75 in x 5.75 in x 3.75 in

(17.2 cm x 14.6 cm x 9.5 cm)