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 <u>EXCEPT</u>:

- 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**#DD**x**#DM**x*20***#DY**x*UTC*■x**#ND**x**#NM**x*20***#NY**x*LOCAL*
Eg: **22 Oct 2018 UTC** then it scrolls to
21 Oct 2018 LOCAL

Line #2
xxx**#HH:#MM:#SS**x*UTC*■xxx**#LH:#LM:#LS**x*LOCAL*
eg: **01:54:52 UTC** then it scrolls to
18:54:45 LOCAL

Line #3
xxx*OUTSIDE*x*TEMP*x**#T1***C*■xxx*INSIDE*x*TEMP*x**#T2***C*
eg: OUTSIDE TEMP 10.5C then it scrolls to
INSIDE TEMP 18.8C

Line #4
x*LONG*x**#LN**■xx*LAT*x**#LT**■xxxxx*ALT*x**#ATM**■xxx*VE7TK*xx**#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

Here's a sequence of 4 screens. Lines 1, 2 and 3 cycle through pairs of data every 3 seconds. Line 4 cycles though 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.
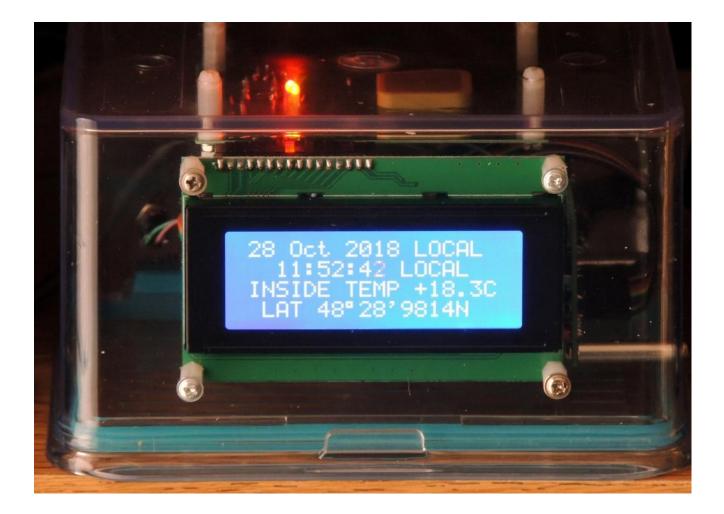

Screen 3: Line 4 shows the Altitude (altitude accuracy is very poor)

Screen 4: Line 4 shows the Maidenhead

For the clock housing I used an air tight refrigerator storange 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)