Instruction set for scope clock:

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When plugged in, the blue led should light immediately, and there should be a small “click” sound of the relay engaging. The orange (neon) bulb should light.

After several minutes, the filament should warm sufficiently and the screen should display “1” (number one) for 60HZ (USA) or “0” (number zero) for 50HZ (some other countries). Sometimes the wrong frequency is erroneously detected. In this case, please unplug the clock, wait until the blue led goes off, and then plug it back in.

To set up the WifiModule, please follow these steps:

Connect to the network named "WifiModule" on your device (you may need to first disconnect from other networks)

Open your browser and type "192.168.4.1" in the address bar. This should open the webpage

WifiModuleConnect, where you can enter your SSID (network name) and password.

Click "submit" and the module should connect and the clock should display the time.

SSID & password will be saved.

To erase the network (if a SSID & password is already saved), press the reset button on the module and power the clock down and restart it after ten seconds.

The time set buttons are a pair situated close together. One is fast set and the other is slow set.

(1)To select manual time set with hertz timing, press slow set (left button).

(3)To select GPS / Wifi autoset:

Note: In most cases the time zone has already been set by default so the following step will not be necessary for most.

To select your time zone (if using GPS autoset) you must start from the startup screen (number “1” or “0” displayed after plugin)

Press the toggle button.

Press fast set to increment through the selections to choose the number for your time zone. Please see the list below. Press slow set to enable the time zone selected and return to setup.

To enable GPS autoset, press fast set once and the screen will momentarily blank and then display “0”. From here you can:

(1) Press fast set again to enable hertz timing without calendar.

(2) Press the toggle button to enable the calendar, and the display will change to “2”, press fast set again to enable hertz timing with the calendar.

(3) Press slow set to enable gps 1PPS timing (display changes to “2”) without calendar then fast set.

(4) Press toggle to enable the calendar, then press slow set to enable 1PPS timing, then fast set.

\*If not using GPS autoset:

To set the time without programming any preset on/off times , just press the slow set button (on the left) once and the clock face should appear, then use the two buttons on the front to set the time .

To manually turn the display on/off, press the toggle button (separate from the two set buttons).

To program the preset on/off times:

Press the fast set & slow set buttons at the same time, and the screen should display the clock face without hands.

Press the fast set button again, and the hours hand should appear. Each time that button is pressed, the hours hand should increment once. When the desired hour is shown for ON time (AM only),

Press the slow set button once to confirm, and the colons (dots) should appear. This indicates the ON time is set.

Press either button once to enter the OFF time set mode. Follow the same procedure, and after the OFF time is confirmed (colons appear), either press slow set to enter normal timekeeping (fast set, slow set) mode, or to set the second set of preset on/off times, press fast set and follow the same procedure, except this time you will be selecting first a PM on time, then an AM off time.

To erase the preset times:

Follow the same procedure as in setting up the times, except just select 12:00 each time and move on until the on / off times are all set to 12:00.

Please refer to the youtube link for illustration:

<http://www.youtube.com/watch?v=y8ro4a65wk8>

Note: If the GPS autoset is not enabled, the clock will display 12:00 AM to start, so if the present time is after noon, you will need to advance the time past 12:00 in order to reach the PM hours, else the preset on/off times may be reversed. I.E.: if the present time is 8:00 PM, you need to advance PAST 8:00 once, and then stop at 8:00. If GPS autoset is enabled, the correct time will set automatically at this point.

To set the display for digital only, analog only or alternating:

Note: This is only included in the gps/wifi program, which is the 18f2685 PIC.

Press slow set & toggle buttons simultaneously.

Press fast set to cycle through the options,

0= alternating

1 = analog only

2 = digital only

When your selection is shown, press slow set to set & it will return to ‘run” mode.

Time Zones :

1 = EST

2 = CST

3 = MST

4 = PST

5 = AKST

6 = HAST

7 = BST

8 = CEST

9 = MSK

10 = PHT

11 = ACST

12 = GST

13 = AEST