PEBBLE SMARTWATCH APPLICATION
USER MANUAL

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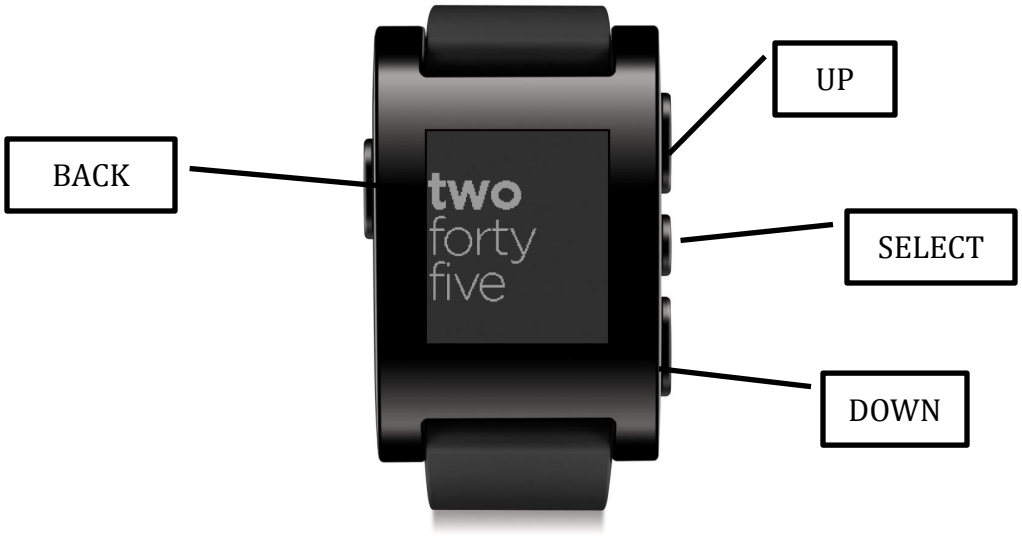
Brief Introduction to Pebble

Pebble is a smartwatch developed by Pebble Technology Corporation. Pebble connects to iOS or Android smartphone via Bluetooth and enables communication between the smartphone and pebble. In normal mode, the pebble displays text messages, emails, incoming calls, and notifications from the phone. It also supports development mode where a Pebble application can be developed on cloud Pebble and pushed on the smartwatch via iOS or smartphone.

It mainly has 4 buttons:



Back – The left button is called the 'back' button and is used to return to the previous menu or previous screen.

Up – The top button on the right is used to scroll up in the Menu

Down – The bottom button on the left is used to scroll down in the menu

Select – The centre button on the right is used to select an item from the list or to start an application.

Our Pebble SmartWatch Application

Our Pebble SmartWatch Application has the following features.

1. You can see the most recent temperature sensor readings.

2. You can see the average, low, and high sensor reading for the past hour.

3. You can decide whether to see temperature readings (and statistics) either in Fahrenheit or Celsius. Additionally, the user can change the 7-segment display on the sensor to show the temperature either in Fahrenheit or Celsius.

4. You can put the sensor into a stand-by mode in which it is not reporting temperature readings. When the sensor is in stand-by mode, you can resume it to report the readings.

5. You can see how long the Arduino has been in “awake” mode (overall since Arduino began running and since the last standby episode).

6. You can see current temperature update every second, instead of requiring to press a button to update the temperature.

7. You can put the Temperature Sensor display to ‘Dance Mode’, where you can see a dancing stick man accompanied by an RGB light show.

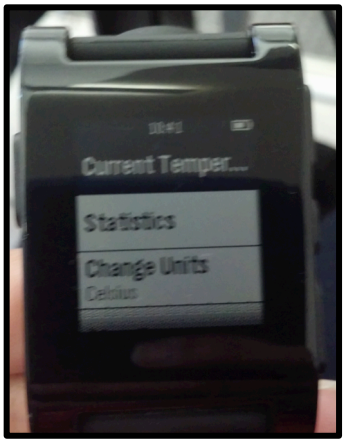
8. You can see an error message, “Unable to connect to Phone”, if the phone is not connected to the Pebble.

9. You can see an error message, “Server can't connect to the Arduino”, if the watch cannot get a reading from the sensor.

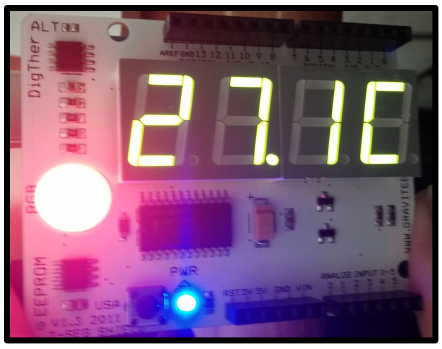
10. You can see an error message, "Unable to connect to server", if the server is not connected.

<u>Guidelines To Access Features</u>

To access our Pebble Smart watch application, go to the main menu, scroll down using the ‘down’ button and select the last menu item named ‘hello world’. Select that item using the ‘select’ button. You will see the screen shown below.

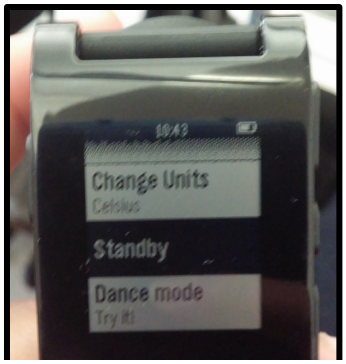


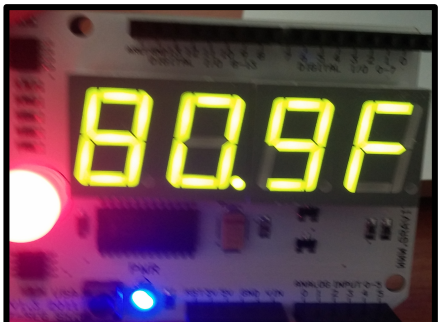
If you select the Current Temperature item, you will get the current reading on the Temperature sensor display. By default this reading will be in Celsius. This temperature will keep refreshing on its own without having to press the 'select' button, repeatedly.



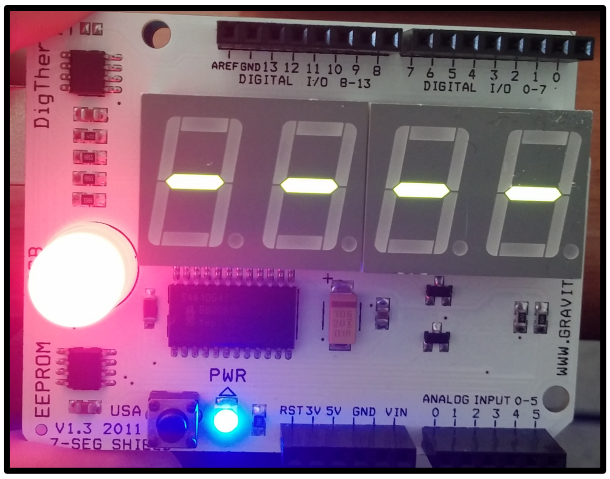
To go back press the 'back' button. When you go to the next menu item, 'Statistics', you can see the Minimum, Maximum and Average sensor readings for the past hour , You can also see the Active Time since the Arduino began.

Moving on to the next menu item, this enables the user to change the temperature display from Celsius to Fahrenheit or the other way around. The current unit is displayed as a subtitle under 'Change Units' title. On pressing the 'select' button you will notice that the unit will change. It will also change on the Temperature sensor display and in Current Temperature and Statistics options.





Next feature enable the user to put the Temperature Sensor to standby mode. On selecting, ‘Standby’ the temperature sensor display stops showing the current temperature, and the menu title changes to ‘Wake Up’. On clicking Wake Up again, the temperature sensor starts displaying temperature again in the previously set unit.



Finally , you can put the watch to Dance Mode! Select the Dance Mode item in the Menu, it will go to the next screen which says ‘Dancing’. Observe the Temperature Sensor display and the LED lights. You will see a stick man shaking his head from left to right and the his hands moving in sync. Also the lights display various colors giving the effect of a disco light. On pressing the back button, dance mode will stop and the temperature display will start showing the temperature again.