

Sketch Modification Instructions

There are a few settings in the sketch that each user will have to verify or change in order for the program to output the correct value to TouchDRO. There are only a handful, and they are very easy to change.

Note that you must know what version your scales are. Instructions for determining the exact version can be found on the website here: http://www.terrywerm.com/tdro_basics.htm

First, the X axis is always enabled, no matter what value you have for the X_ENABLED statement. TouchDRO always expects to have at least that one axis connected. I just have that particular line in there to make all of the axis settings look the same.

Second, these are true/false settings. A 1 means True, a 0 means false.

The User Settings section is at the very top of the program. It consists of 2 settings for each axis, an ENABLED setting to tell the sketch if you actually have a scale connected to that port, and a Version setting to tell the sketch which version of the scale you have on that port. Every setting starts with the `#define` directive, and is then followed by the axis letter and setting name. That is followed by a 1 or a 0 to tell the sketch if that particular setting is true or false. There are only 9 User settings to make, so it's pretty quick.

The default settings of the sketch are: X axis connected and it's version 4.3, Y axis connected and it's version 3.1, Z axis connected and it's version 3.1, W axis NOT connected and it's version 3.1. The last setting, BT_BAUD, tells the Arduino what speed to send data to the Bluetooth module at. The default setting is 9600 which is the default baud rate most BT modules are set at from the factory. If you have re-programmed your module to communicate over the RXD pin at a different rate, this is where you put that value.

Now for some examples:

If your X axis is version 3.1, make this change:

Change this:

`#define X_VER_31 0` the default setting is that the X axis is version 4.3.

to this:

`#define X_VER_31 1`

If you do NOT have a Z axis connected, make this change:

Change this:

`#define Z_ENABLED 1` the default setting is that the Z axis is enabled.

to this:

`#define Z_ENABLED 0`

The last setting, `#define BT_BAUD 9600`, is for people who have reprogrammed their Bluetooth module. If you know how to do that, then you know what value this should be changed to. Otherwise, just leave this number alone.