

Balancing load or Strain channels in MTL32

This process should be used if you notice there is a high value being displayed even if no load is applied or if the read out just shows zero but when load/strain is being applied nothing changes the transducer inputs.

- 1.) Once MTL32 software is connected to controller, click on 'user' and select 'administrator'. Type in a password if prompted.
- 2.) The calibration panel is found the very bottom of the MTL32 software window. Newer versions of the software have a 'calibration' tab.
- 3.) Select the load cell or strain channel that needs to be checked from the drop down in green. Newer version of MTL32 will not have a green drop down it will be black with name of the cell or channel.
- 4.) Clear the 's/w off' setting to zero by highlighting the setting and entering in zero. Press enter. You might see that value applied to the yellow readout number.
- 5.) If the readout shows a negative number press the right balance button until you see the readout shift towards zero. This may take multiple clicks depending how unbalanced it is. You want to get to close as zero as possible. If the readout is showing a positive number then you want to click the left balance button. If the "Invert" checkbox is active, the button to use will probably be opposite. The balance buttons are to the left and to the right of the yellow readout (show below).



With MTL32 version 2016 and later you can press the balance button once and a message will pop-up. Press ok and then press enter again. You can enter a button scale to where one click actually equals X amount more. You can type in 10 and press ok. Press the balance pot again until you see a shift. You might see a shift going from one max range to the other. Press enter again and type in 5 and then press ok. Press the balance button until readout gets close to zero. You can press enter again and type in 1 and press ok to make a even a finer adjustment

<Balance range is 0 – 100; setting to 100/click will just swing from one end full scale to the other end full scale.>

Once you get to a point where one click goes over through zero and a click on the other balance button goes back through zero then the load cell is balanced. If you are making multiple clicks and the readout is not making any change. Double check the connections are good and secure and retry the balance process. If its still not balancing, possible the load cell is damaged and further checks can be performed to confirm.

6.) Press the 'set' button and type in the number '0' zero and press ok. This will tare the read out back to zero.

7.) Apply load or strain to the device to make sure the readout is changing properly.