**Instrument:** Q400 TMA (ETRL 322)

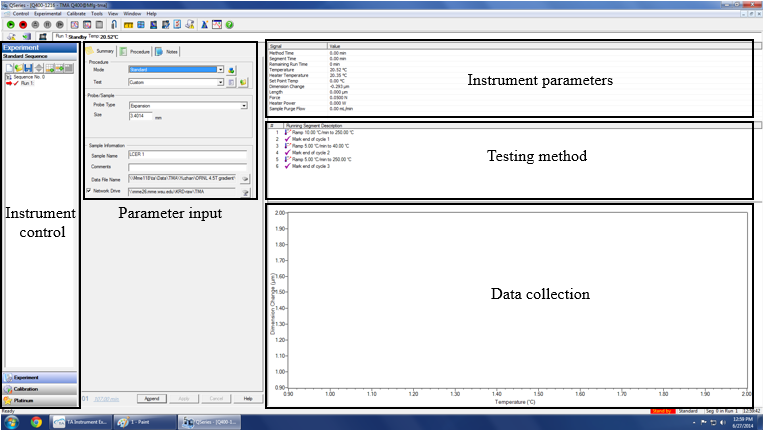
Last updated 06/27/2014

**Pre-test system checks:**

1. Open valves and check gas level. Replace cylinders if they are empty or at low gas level.

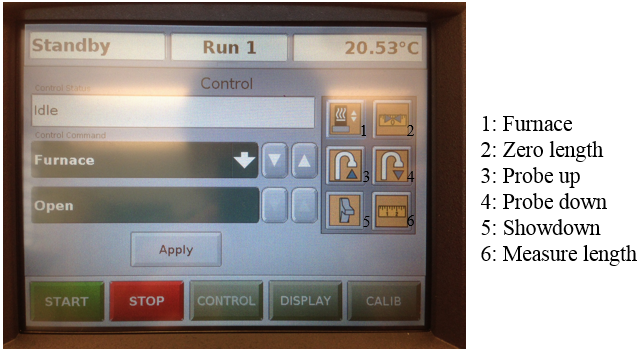


Purging gas cylinders. Left: Air (for cooling) Right: Nitrogen (cell purge)

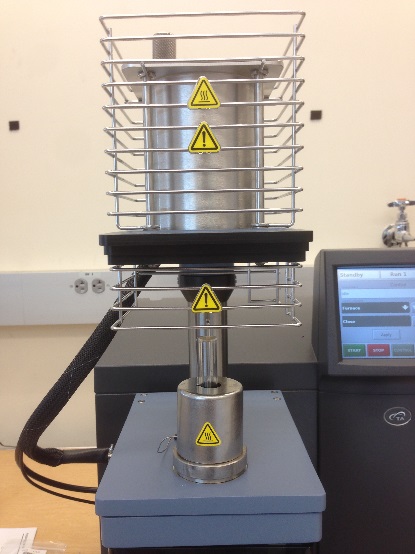
2. Double click **TA Instrument Explorer** icon on the desktop. Then double click **Q400-1216@Mfg-tma** icon to open QSeries software. 

3. Check sample purge flow, should be around 50ml/min

**Use touchscreen to control the instrument**



1. Press **Furnace**, then press **Apply** to open the furnace

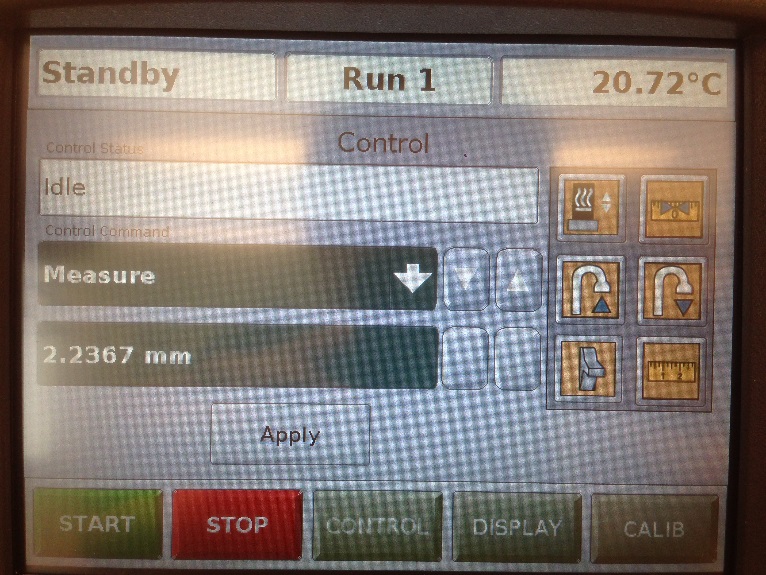


2. Press **Zero length** to setup a based line. Make sure the stage is clean.

3. Press **Probe up** and place sample on the stage

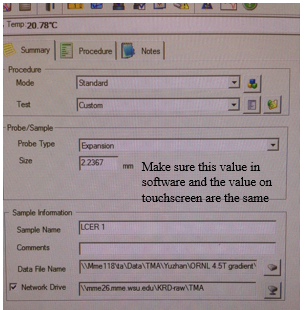


4. Press **Probe down** to lower the probe. Make sure the probe has a good contact with the sample then press **Measure**. The height of the sample should be displayed on the screen.



**Software input**

1. Under **Summary** tab, verify sample height information



3. Update sample name and data file name.

4. Go to **Procedure** tab and define a running method.

5. Go to **Notes** tab and update operator information.

6. Click on the green arrow, , to start experiment.

**Post-test**

1. Press **Probe up** and remove sample.

2. Press **Probe down** to lower the probe.

3. Press **Furnace** to close the furnace.

4. Turn off gas (Note: Please make sure no one is using the purging gas for TGA or DSC)

