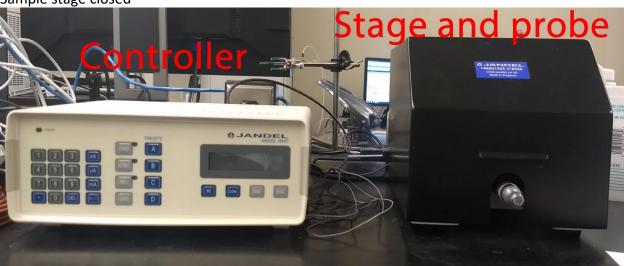
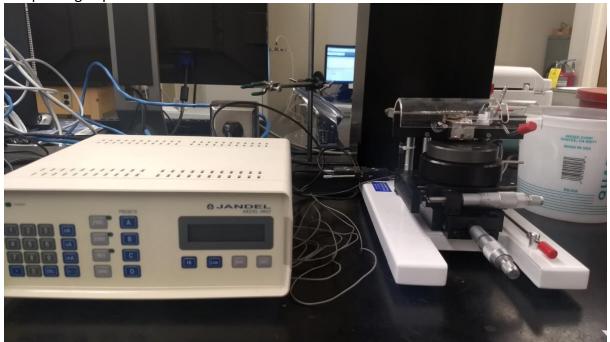
Jandel 4-point probe Instructions

The instrument consists of two components. The RM3 controller on the left and a 4-point probe and sample stage on the right. The instrument measures the sheet resistant of a square of sample using 4 probes, the outer two supply current and the inner two measure the voltage. The units of sheet resistance are Ω/\Box (ohms per square)

Sample stage closed



Sample stage open



Step 1: turn on the RM3 Controller

a) Power switch is in the back on the lower left-hand side of the controller

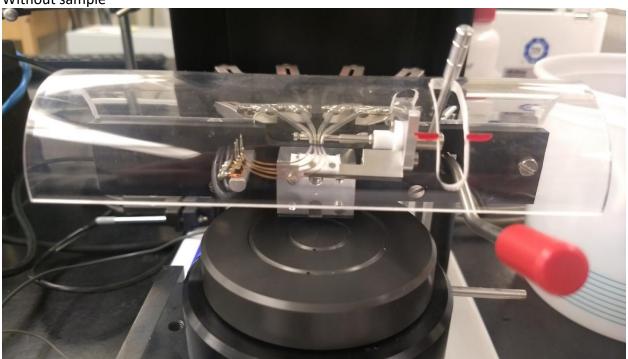
- b) After switching it on controller the LCD will display "calibrating" then after some time go to "Standby".
- c) After you get "Standby" proceed to Step 2

Step 2: press the test button on the controller

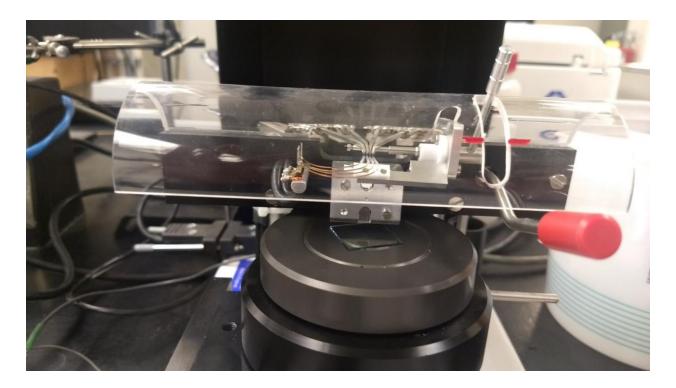
- a) Controller will display "calibrating", followed by "zeroing", and "testing"
- b) When the controller displays "Tested Failed" proceed to step 3

Step 3: Put your sample on the round sample stage with the area you want to measure under the 4-point probe

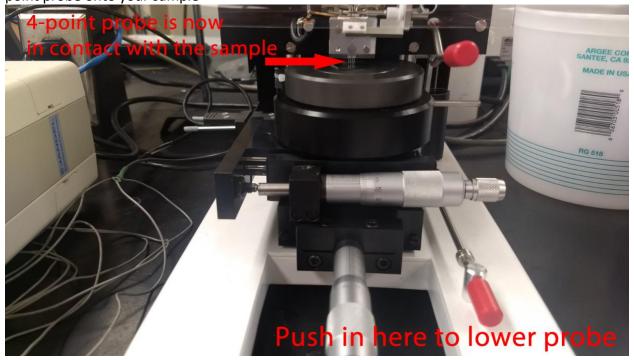
Without sample



With sample in place



Step 4: Push the red-knob in on the lower right-hand side of the sample stage to lower the 4-point probe onto your sample



Step 5: press the zero button to take a measurement

a) You'll need to wait a few seconds for the measurement to stabilize

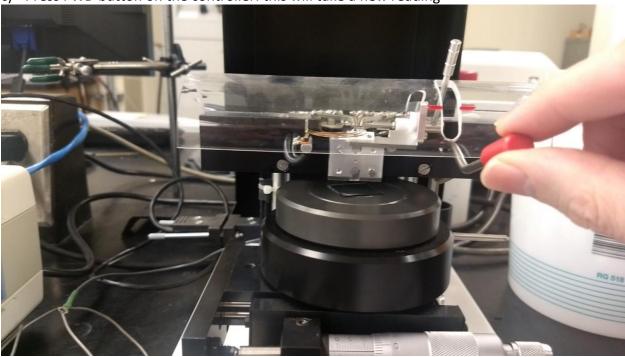
Optional 1: change the current applied to the 4-point probe (the default current is 9 μ A)

- a) On the controller, type in the desired current followed by the units' button
- b) If you get the error "Contact Limit" try reducing the current

Optional 2: moving the sample around to take a reading somewhere else on the sample

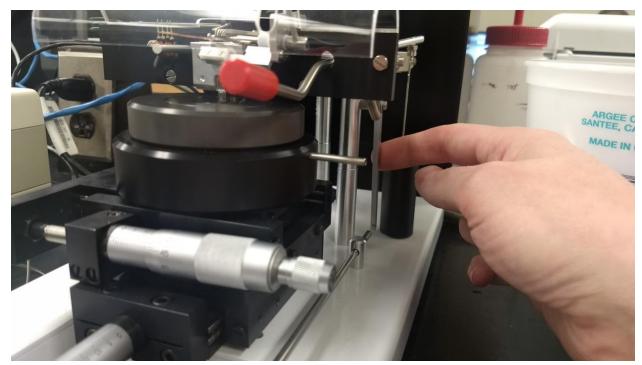
- a) Press the Standby button on the controller: this turns off the current to the probe
- b) Left up the red knob on the top of the 4-point probe and then move your sample around, then release the knob to lower the 4-point probe by into contact with your sample

c) Press FWD button on the controller: this will take a new reading



Step 6: removing your sample when your done

- a) Pull out the red knob on the lower right-hand side of the sample stage
- b) At the end of the red knob lever is another lever that runs to the top of the sample stage, pull the lever towards you



- c) Lift up the red knob lever at the top of the sample stage until you hear it click
- d) The 4-point probe should now be stuck in the up position and no longer making contact with your sample
- e) Remove your sample and close lid of 4-point probe and stage

Step 7: turn off the power to RM3 controller