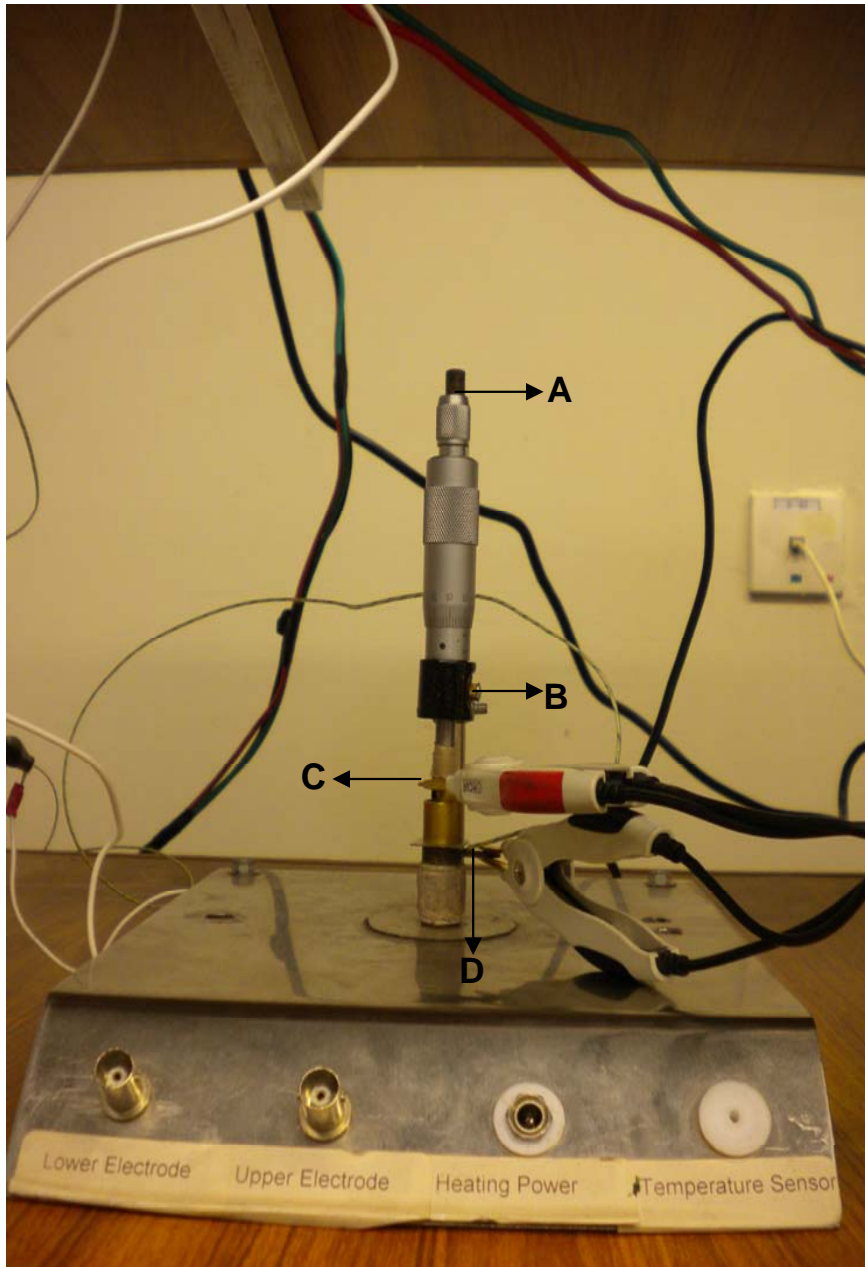


# Operator Manual



## Instructions:

- A:** Knob of a micrometer to vertically move the upper electrode (moveable) up and down according to thickness of sample.
- B:** Screw to lock or unlock the movement of micrometer. When sample is placed between electrodes operator should lock this screw to fix upper electrode and after performing experiment you should first unlock screw and then take out sample.
- C:** Electrical probe 1 to make connection of upper electrode with LCR meter. Take care micrometer screw must be locked before doing step C.
- D:** Electrical probe 2 to make connection of lower electrode (fixed) with LCR meter.

After doing these steps operator must cover whole electrode/sample portion with ceramic wool while performing temperature dependant measurements (<350 degree C) for thermal insulation and to avoid heat losses.

Full image of Dielectric measurement system setup is shown on next page to illustrate connections among LCR, Dielectric cell, circuitry of Temperature controller, variac and computer.

For more details see documents available on <http://physlab.lums.edu.pk> or contact Afaq Piracha.

