

D31 INSTRUCTIONS

1. d_{31} measurement differ from d_{33} measurement only in the test material orientation. Both measurements are similar electrically and mechanically.
2. Calibrate the system with the calibrated d_{33} sample following the directions above.
3. Exchange the metal probes for the plastic tipped ones.
4. One D31 sample (for example only, not calibrated) is included with the meter. Find a black dot on the side of this sample. The two metallized sides $\pm 90^\circ$ to this side are the measuring faces. Adjust the d31 arms vertically and horizontally so that the pins on the arms will make electrical contact while the sample is clamped.
5. As in D33, put the test material between the top and bottom clamps to hold it in place. Ensure that the material's D31 direction is oriented towards the side probes and that they make light electrical contact.
6. The rest of the measurement procedure follows that of D33.



Piezo d_{33}/d_{31} Meter Instruction Addendum

Caution:

Probe heads should be tightened only finger tight!

If a probe head cannot be exchanged without use of tools, be certain that the hex shaped base of the shaker (shown below) is held immobile relative to the shaker unit. Permanent damage to the shaker unit and meter may result if the hex base is twisted.

