

Ohm-Stat[®] RT-1000 Calibration Instructions

- 1. Purchase 1 %- (10^3 - 10^{12}) ohm resistors, a high accuracy relative humidity hygrometer, and a high accuracy thermometer.**
- 2. If desired to trace to NIST standards return to us or send above to a NIST calibration laboratory to determine and trace accuracy.**
- 3. Open meter being careful not to disturb or break the two wires connecting the power button to the circuit board.**
- 4. Observe on the right lower side of the meter printed circuit board three (3) calibration pots.**
- 5. ALLOW THE METER TO EQUILIBRATE AND NORMALIZE IN THE ENVIRONMENT FOR ½ HOUR BEFORE TESTING.**
- 6. Using the supplied coil cords attach the alligator clips to the banana plug ends of the cords. Do not allow the leads to touch each other.**
- 7. Insert the 3.5 mm ends into the meter jacks.**
- 8. Attach the ends of the resistors to the ends of the alligator clips. Remove your hands from the wires.**
- 9. The top one is for humidity. The middle one is for resistivity. The bottom one is for temperature. Adjustment is done with a small screw driver. Clockwise is to increase the value. Counter clockwise is to decrease the value.**
- 10. Press the power button and compare the resistor value , humidity, and temperature to the parameter to be calibrated.**
- 11. Release the power button and slowly turn the correct adjustment pot**
- 12. Re-press the power button.**
- 13. Observe the LCD screen.**
- 14. Re-press and adjust the pot if necessary.**
- 15. Close case and tighten the 4 screws.**
- 16. Press power button to verify meter is working.**

There is a conformal coating applied to the circuit board after calibration in order to prevent inaccurate readings due to high humidities. Turning the screw might be initially difficult. It will not hurt the meter.

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