

Ohm-Stat™ RT-1000

CALIBRATION INSTRUCTIONS

1. Purchase 1%- 10^3 - 10^{12} ohm value resistors, high accuracy relative humidity hygrometer, and a high accuracy thermometer. The resistors, hygrometer, and thermometer must be NIST calibrated with a certificate of traceability.
2. Open meter being careful not to disturb or break the two wires connecting the power button to the circuit board.
3. Observe on the right lower side of the meter printed circuit board three (3) calibration pots.
4. **ALLOW THE METER TO EQUILIBRATE AND NORMALIZE IN THE ENVIRONMENT FOR 2 HOURS BEFORE TESTING.**
5. Using the supplied coil cords attach the alligator clips to the banana plug ends of the cords.
6. Insert the 3.5mm ends into the meter jacks.
7. Attach the ends of the resistors to the ends of the alligator clips.
8. The top one is for humidity. The middle one is for resistivity. The bottom one is for temperature. Adjustment is done with a small screwdriver. Clockwise is to increase the value, counter clockwise is to decrease the value.
9. Press the power button and compare the resistor value, humidity, and temperature to the parameter to be calibrated.
10. Release the power button and slowly turn the correct adjustment pot.
11. Re-press the power button, and observe the LCD screen.
12. Re-press and adjust the pot if necessary.
13. Close case and tighten the 4 screws.
14. Press the power button to verify that the meter is working.
15. Record serial number and attach a NIST calibration certificate.
16. Record in data base for one year.

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

***Should calibration traceable to the NIST be required, please call Static Solutions Inc. directly to arrange for calibration.

For additional information please contact:

Static Solutions, Inc.
331 Boston Post Road East
Marlborough, MA 01752
Tel: (508) 480-0700
Fax: (508) 485-3353

Email: contactus@staticolutions.com

Prepared and written on: January 5, 2007 by Lenard Cohen