

Title: Testing Triac Resistances Created: 13.July.2012 Last Revised:

Applies To: Baths, Micro Baths, and Dry Well Calibrators

Problem Description:

Failure of the Triac can cause heating circuits to behave abnormally.

Resolution/Work Around:

To determine if a Triac is operating correctly, do the following:

- 1. Disconnect the instrument from its power source.
- 2. Locate the Triac.
- 3. Mark and then disconnect the lead wires connected to the Triac.
- 4. Using an Ohmmeter check the terminal-to-terminal resistance as shown in Table 1.
- 5. If any of the resistance values are outside of the guidelines shown in Table 1, the Triac should be replaced.
- 6. If the resistance values are within the guidelines or after the Triac has been replaced, reconnect the lead wires to their correct terminals.

Table 1: General Resistance Guideline		
40Ω < G to MT1 < 100 Ω		
MT1 to MT2 > 20 MΩ		
MT2 to G > 20 MΩ		

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NOTE: Resistances listed in Table 1 are not absolute and should only be used as a troubleshooting guideline. Reversing polarity of the measurement will change measured results. Measure + to -, for example positive lead on G and negative lead on MT1.



Other Information:

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