



Using a Megger to Troubleshoot STRATA_HEAT™ Wire TDS 219

WHAT IT DOES

The megger is used as a quality control tool to test insulation resistance and detect faults in the STRATA_HEAT Wire. These types of leaks cannot be identified with a standard ohmmeter. This test helps identify damage to the STRATA_HEAT Wire and its insulation jacket.

HOW IT WORKS

The megger applies voltage to the STRATA_HEAT Wire and measures the current flowing through the circuit to evaluate insulation integrity. Higher resistance indicates good insulation.

HOW TO USE IT

- Ensure no power is supplied to the heating system being tested.
- Insert the probes into the V and COM input terminals.
- Set the dial to:
 - 500V for a 240V system
 - 250V for a 120V system
- Clip the black probe to the black wire from the cold tail lead.
- Connect the red probe to the ground wire.
- The display should show "----" until the TEST button is pressed.
- If a high voltage symbol appears along with a reading greater than 30V:
 - Disconnect the probes
 - Ensure power to the heating system is off before proceeding
- If the high voltage symbol does not appear:
 - Press and hold the TEST button to begin the test

Note:

- The bottom right of the display shows the applied voltage.
- Insulation resistance will appear in the center of the screen (MΩ or GΩ).
- The TEST icon will remain visible until the test is complete.
- If resistance exceeds the display range, a ">" symbol will appear.
- Higher resistance indicates better insulation.
- Refer to the megger manual for acceptable insulation resistance ranges.
- Keep the probes connected and release the TEST button.
- Remove the probes and repeat the test:
 - Move the black probe to the red wire (240V system) or solid yellow wire (120V system)
 - Repeat the same steps
- Final reading should be greater than 1 MΩ.
 - If lower, contact LATICRETE Technical Services at 1.800.243.4788 ext. 1235.

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