

AEMC® GROUND RESISTANCE CHECKER

The Ground Resistance Checker (Cat. #5000.74) provides a quick and simple way to check the measurement accuracy of your ground resistance tester. The unit provides test resistances for:

- R_E (25.0 or 5.0 Ω , depending on switch position) with $\pm 2\%$ accuracy
- R_H (100.0 Ω) with $\pm 3\%$ accuracy
- R_S (100.0 Ω) with $\pm 3\%$ accuracy



To use the Ground Resistance Checker:

1. Connect the Ground Resistance Checker to the instrument. The leads are color-coded; match each lead's color to the appropriate instrument terminal color. (If required by your instrument's terminals, use the four fork terminals supplied with the Ground Resistance Checker.)
2. Turn the Ground Resistance Checker's switch to the left (25.0 Ω).
3. If you are testing a Model 6400 series instrument, turn the dial to a setting that displays R_E , R_H , and R_S . For some instruments this is the 4 Pole setting, for others (e.g. the Model 6472) this is 3+1 Pole.

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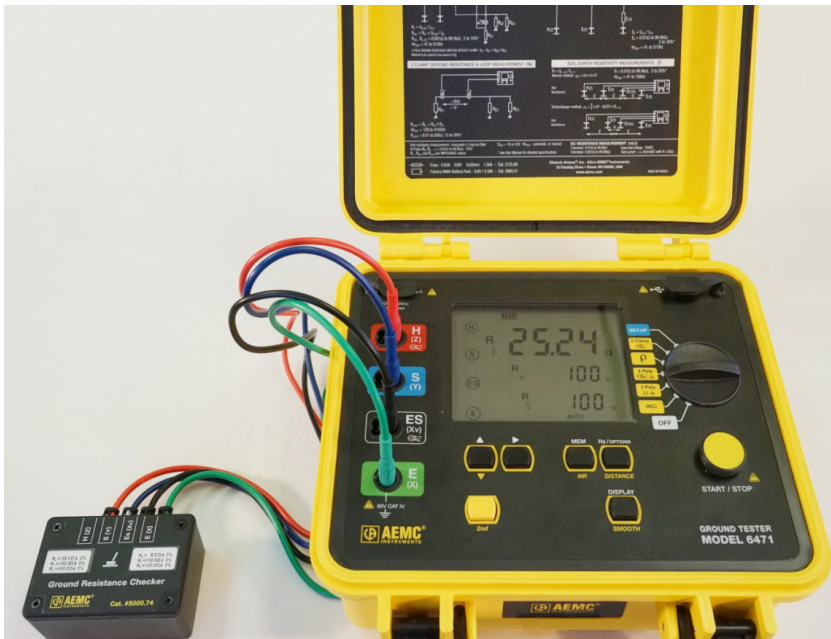
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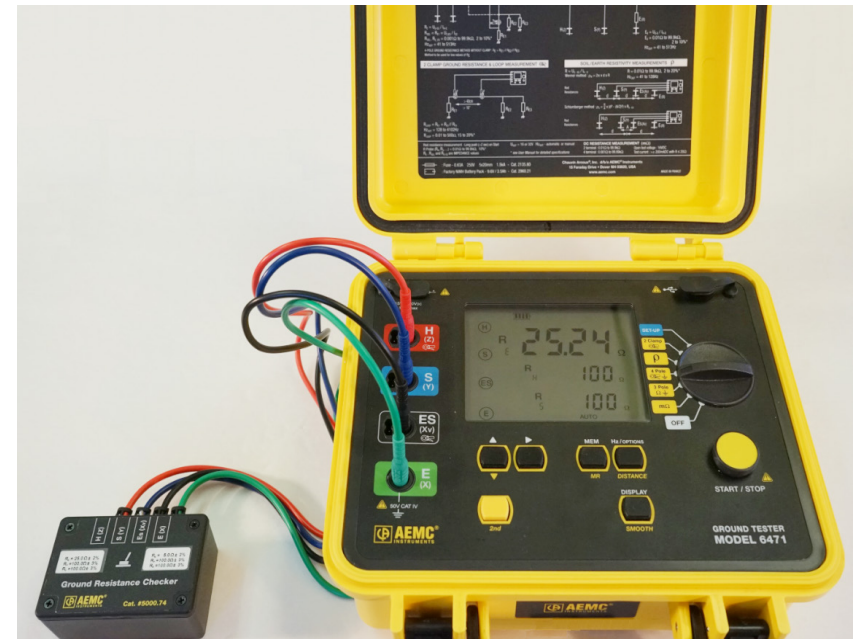
1. Connect the Ground Resistance Checker to the instrument. The leads are color-coded; match each lead's color to the appropriate instrument terminal color. (If required by your instrument's terminals, use the four fork terminals supplied with the Ground Resistance Checker.)
2. Turn the Ground Resistance Checker's switch to the left (25.0 Ω).
3. If you are testing a Model 6400 series instrument, turn the dial to a setting that displays R_E , R_H , and R_S . For some instruments this is the 4 Pole setting, for others (e.g. the Model 6472) this is 3+1 Pole.

4. Hold down the START button for >2 seconds. After a few moments the R_E reading (and for Model 6400 series the R_H , and R_S readings) appear on the LCD.
5. Check the readings. These should fall within the range of:
 $R_E = 25.0\Omega \pm 2\%$
 (Model 6400 series only) R_H and $R_S = 100\Omega \pm 3\%$
6. Turn the switch on the Ground Resistance Checker to the right (5.0 Ω setting).
7. Hold down the START button and take a measurement. The R_E reading should be $5.0\Omega \pm 2\%$.
8. You can also use the Ground Resistance Checker to perform a 4-pole m Ω test.



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5. Check the readings. These should fall within the range of:
 $R_E = 25.0\Omega \pm 2\%$
 (Model 6400 series only) R_H and $R_S = 100\Omega \pm 3\%$
6. Turn the switch on the Ground Resistance Checker to the right (5.0 Ω setting).
7. Hold down the START button and take a measurement. The R_E reading should be $5.0\Omega \pm 2\%$.
8. You can also use the Ground Resistance Checker to perform a 4-pole m Ω test.



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