

## Measuring earth resistance up to 2000 ohms accurately with the compact PCE-ERT 10

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Proper earth connection is a basic requirement for safe operation of electrical systems in residential or commercial buildings and serves to protect technical equipment and people. Inadequate grounding is a hazard, because without an effective grounding system there is a risk of electric shock. Poor grounding can also cause damage to equipment. Every year, billions are lost due to electrical fires at workplaces.

The earth resistance should be kept as low as possible – ideally 0 ohms. An electrician can check this earth resistance with an earth tester from PCE

Instruments. This measurement should be carried out before a building is erected and can save high costs under certain circumstances.

PCE Instruments has launched the new earth tester PCE-ERT 10 for professional measurement of the earth resistance. With its small size of only 200 x 92 x 50 mm and the included carrying case, the meter is very compact. With the help of this new earth tester it is possible to determine earth resistances of up to 2000 ohms quickly and accurately. For instance, the earth resistance tester can measure the resistance of lightning conductors or grounding electrodes. The PCE-ERT 10 uses three-wire technology to measure the earth resistance via the power/voltage measuring functions. Measuring electrodes are hit into the soil at a defined distance to the earth electrode and the earth resistance of meters is measured. The ground spikes are included with the earth tester.

In addition to earth resistance measurement, the PCE-ERT 10 earth tester can also measure resistance up to 200 kohms. Old connections and wiring in electrical systems can cause increased leakage or connection resistance. With the earth tester PCE-ERT 10, these weak points can be localised and measures can be taken by the local electrician. The earth tester PCE-ERT 10 shows the readings on a large LCD. The measuring mode as well as the measurement range can be selected via a rotary switch. To ensure optimum accuracy, a zero setting before each measurement is recommended.

Further information on the earth tester PCE-ERT 10 can be found here:

[https://www.pce-instruments.com/english/measuring-instruments/test-meters/earth-tester-pce-instruments-earth-tester-pce-ert-10-det\\_5845186.htm](https://www.pce-instruments.com/english/measuring-instruments/test-meters/earth-tester-pce-instruments-earth-tester-pce-ert-10-det_5845186.htm)