

CONTACT RESISTANCE TESTER

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## Description

HVEX 100A Contact Resistance Tester is essential for ensuring the efficiency, safety, and reliability of electrical systems. These tests are conducted to measure the electrical resistance between contact points in components such as relays, disconnect switches, circuit breakers, reclosers, busbars, and more.

The primary purpose of this test is to detect and quantify issues such as loose connections, aging, corrosion, or dirt on contact points. High contact resistance can lead to energy losses, overheating of components and assets, and even failures, posing

Therefore, the contact resistance test conducted by the device is crucial not only for preventing future problems but also for extending the equipment's lifespan, reducing maintenance and replacement costs, and improving operational safety in electrical installations.

### Benefits:

- High safety;
- Protection and reliability;
- User-friendly operation;
- Fast testing.

## Operation

During the contact resistance measurement test, a controlled current is applied to the test terminals, and the resulting voltage drop is measured. Based on this measurement, the device automatically calculates and displays the contact resistance, which should fall within specific values to ensure proper performance.

If values outside the established standards are identified, corrective measures such as cleaning contacts, adjusting contact pressure, or even replacing damaged components may be necessary to restore efficiency, safety, and system continuity.



## Technical Specifications

Power Supply	220 VAC $\pm$ 10%; 50/60 Hz
Current test	50 A / 100 A
Measurement range	1 ~ 9999 $\mu\Omega$
Accuracy	0,5 % $\pm$ 0,5 $\mu\Omega$
Maximum output voltage	5 V
Power consumption	$\leq$ 500 W
Resolution	0,01 $\mu\Omega$
Operating temperature	-20 °C ~ 40 °C
Humidity	$\leq$ 80 % non-condensing

We provide solutions to improve the efficiency and quality of the energy generation, transmission, and distribution sectors. With a highly specialized team experienced in research, development, and innovation, HVEX has developed tailored solutions for the Brazilian market. We offer a wide range of products focused on measurement signal transduction and protection solutions.



Driving Innovation



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