

40A WINDING RESISTANCE TESTER

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Description

HVEX 40 Amps Winding Resistance Tester allows for the identification of potential issues in electrical windings. Among the primary detectable faults are short circuits, open circuits or winding interruptions, indicated by high resistance resulting in lack of continuity, loose or defective connections that increase measured resistance due to additional resistance introduced.

The measurement of DC winding resistance is crucial in the manufacturing and maintenance processes of inductive windings in transformers, inductors, reactors, and electromagnetic drive mechanisms. This procedure is conducted during factory tests, installation, receipt, and preventive tests. This verification effectively identifies manufacturing defects or aging of windings over time and ensures winding integrity by detecting potential problems early.

Benefits:

- Interference suppression capability;
- Automatic and swift testing;
- Protection functions;
- Wide measurement range;
- Accurate measurements;
- Lightweight and compact.

Features

- It features 7 output current ranges, varying from < 5mA to 40A, making it suitable for DC winding resistance measurement in various applications.
- With comprehensive protection functions, ensuring reliable protection and achieving safer and more efficient performance.
- It allows the configuration of extensive parameters, including the tested winding, tap position, test phase, sample temperature, conversion temperature, and other relevant data related to the item under test.
- Equipped with a 7-inch screen and an intuitive and straightforward interface, the tester displays data clearly and sharply. Additionally, it allows real-time output result printing.
- It has a USB interface and communication capability, enabling the transfer and communication of test data directly to USB drives, facilitating the storage and analysis of results.



Technical Specifications

Power supply	220 VCA $\pm$ 10%, 50/60 Hz $\pm$ 1Hz	
Measurement range	40 A	50 $\mu\Omega$ to 500 m Ω
	20 A	100 $\mu\Omega$ to 1 Ω
	10 A	500 $\mu\Omega$ to 2 Ω
	5 A	1 m Ω to 4 Ω
	2 A	2 m Ω to 10 Ω
	100 mA	100 m Ω to 200 Ω
	< 5 mA	200 Ω to 100 k Ω
Accuracy	$\pm$ 0,2%	
Resolution	0,1 $\mu\Omega$	
Temperature	-10 $^{\circ}\text{C}$ $\sim$ 40 $^{\circ}\text{C}$	
Dimensions	428 mm x 350 mm x 230 mm	
Weight	10,9 kg	
Humidity	$\leq$ 90% non-condensing	
Altitude	$\leq$ 1000 meters	

We provide solutions to enhance efficiency and quality in the power generation, transmission, and distribution sectors. With a highly specialized team experienced in research, development, and innovation, HVEX has been tailoring solutions for the Brazilian market. Our extensive range of products includes solutions for signal measurement and protection transduction.



Driving Innovation



☎ 35 3622-2699

✉ contato@hvex.com.br

🌐 www.hvex.com.br

📍 R. Ismael Pinto de Noronha, 86,
Nossa Sra. de Fatima, Itajubá-MG