

ZT

DC Resistance Tester Series

Basic Principle


The ZT Type DC Resistance Rapid Tester adopts a typical four-wire measurement method to improve the accuracy of resistance measurement (especially for low resistance). The main part of the measurement circuit consists of a programmable constant current source, a programmable preamplifier, and an A/D converter. The central control unit controls the constant current source to apply a constant and high-precision current to the external load under test, and then processes the acquired data (including test voltage, current during the test, etc.) to obtain the actual resistance value. It is an ideal instrument for measuring the DC resistance of transformer windings and high-power inductive equipment.

Features


- The instrument adopts advanced power supply technology, with multiple current gears and a wide measurement range. It can automatically select current according to the load, and is suitable for DC resistance measurement of various transformers and voltage transformers.
- It has multiple protection functions, including back-EMF impact protection, protection against wire breakage and power failure during testing, and power supply overheating protection. These functions can reliably protect the instrument from back-EMF impacts and trigger synchronized audible alarms.
- Rapid measurement, compact size, user-friendly operation, and high measurement accuracy.
- Self-diagnostic and automatic calibration functions reduce the difficulty of using and maintaining the instrument.
- The instrument allows selection of either automatic or manual operation mode.

Common specifications and technical characteristics are listed below.

For other requirements, please inquire:

	Model	Parameters	Product Image
1	ZT-5A	Maximum Output Current: 5A Measurement Range: 0.5 mΩ–20 kΩ; Includes lithium battery;	

2	ZT-10A	<p>Maximum output current: 10A; Measurement Range: 0.5 mΩ–50 kΩ; Includes lithium battery;</p>	
3	ZT-10A2	<p>Maximum output current: 10A; Measurement Range: 0.5 mΩ–100 kΩ; Includes lithium battery;</p>	
4	ZT-10A3 (Handheld)	<p>Maximum output current: 10A; Measurement Range: 500μΩ–50K Ω; Includes lithium battery;</p>	
5	ZT-20A	<p>Maximum output current: 20A; Measurement Range: 100μΩ–20K Ω;</p>	
6	ZT-40A	<p>Maximum output current: 40A; Measurement range: 50μΩ–20K Ω;</p>	
7	ZT-50A	<p>Maximum output current: 50A; Measurement range: 40μΩ–20K Ω;</p>	

8	ZT-60A	Maximum output current: 60A; Measurement range: 40μΩ-20K Ω;	
9	ZT-100A	Maximum output current: 100A; Measurement range: 50μΩ-4Ω;	