



## GDZRC-100U Transformer DC Winding Resistance Tester



### General Information

Transformer DC winding resistance is a required test item for the factory test, installation, overhaul, change of tap switch, handover test and preventive test of power department. It can check the welding quality of the winding joints and whether there is a short-circuit between the windings. It can detect whether the contact of each position of the voltage tap switch is good, and whether the actual position of the tap switch is consistent with the indicated position, whether there is a fracture of the lead wire, whether there is a broken strand of multi-strand wire and winding.

GDZRC-100U Transformer DC Winding Resistance Tester is designed in order to meet the needs of rapid measurement of transformer DC winding resistance. The instrument adopts a new power supply technology, featuring small size, light weight, large output current, good repeatability, strong anti-interference ability and perfect protection function. The whole machine is controlled by high speed single chip microcomputer, high automation, with automatic discharge and discharge alarm function. The instrument has high precision and easy operation, which can realize the rapid measurement of transformer DC winding resistance.

## Features

- The whole machine is controlled by high-speed single-chip microcomputer with high automation, easy for operation.
- The instrument adopts new power supply technology, with multiple current gears and wide measuring range, which is suitable for DC resistance measurement of large and medium-sized transformers.
- With complete protection function. It can protect the instrument from the impact of counter EMF, more reliable.
- With sound discharge alarm, discharge clear indication, wrong operation is reduced.
- Quick response. The on-load tap changer can be directly converted in the measuring state, and the instrument can refresh the data automatically.
- With intelligent power management technology, the instrument is always working in the state of minimum power, effective energy saving, reduce heat.
- 65K true color, 320\*240 LCD screen.

- The instrument comes with a calendar clock and power off storage, which can store 1000 sets of test data and can be reviewed at any time.
- The instrument is equipped with RS232 and USB interface, by which the instrument can communicate with computers and save data on USB disk
- With micro printer on the panel.

### Specification

Output current	100A, 50A, 20A, 10A, 5A
Min. resolution	0.1 $\mu\Omega$
Measurement range	At 100A: 50 $\mu\Omega$ ~100m $\Omega$ ; at 50A: 100 $\mu\Omega$ ~200m $\Omega$ ; at 20A: 200 $\mu\Omega$ ~800m $\Omega$ ; at 10A: 500 $\mu\Omega$ ~2 $\Omega$ ; at 5A: 1m $\Omega$ ~4 $\Omega$
Accuracy	$\pm(0.2\%+2\text{digits})$
Working temperature	0 $^{\circ}\text{C}$ ~40 $^{\circ}\text{C}$
Relative humidity	<90%RH(no condensing)
Size	440*245*395mm
Weight	instrument: 19.5kg; accessory case: 7.5kg

**Accessories**

Tester	1 set
Power cord	1pc
Test line	1 set
Printing paper	1 roll
Fuse	2pcs
Ground cable	1pc
RS232 communication line	1pc
Test object	1pc
User's guide	1 copy
Warranty card	1 copy
Factory test report	1 copy