

RD3320Y 20KV Digital Insulation Resistance Tester

With the rapid development of power industry, electrical preventive experiment is an important aspect of electrical power system safe operation and maintenance work, insulation is an important diagnostic tool to detect electrical equipment or insulation failure.

Currently, electrical equipment (such as transformers, generators, etc.) toward the trend of large capacity, high voltage, structural diversification and sealing, this requires insulation resistance tester with advantages of large capacity, strong anti-interference ability, easy to carry and so on. So we designed and developed the series meter especially for strong interference field test for large high voltage transformers, electrical appliances, remote power cables or laying cables and other electrical insulation resistance properties for high-voltage substations, power plants and others.

The Digital Insulation Resistance Tester system combines analog circuits, digital circuits, mechanically operated advantages, achieved a leading position at the output voltage, output current, measuring range, measurement accuracy, anti-interference ability.



Product Features

1. With strong anti-electric field interference ability up to 2mA (50Hz), it is suitable for 500kV substation without dismantling wire to test insulation resistance of 500kV large-scale transformer.
2. The short-circuit current is 10mA, be suitable for testing high capacity and high inductance.
3. Wide resistance range: 0.01MΩ ~ 1999GΩ. With high-resolution, having accurate readings.
4. Wide output voltage range: 0.5kV, 1kV, 2.5kV, 5kV, 10kV, 20kV adjustable, you can smoothly adjust voltage from 0V to the desired value.
5. With timekeeping function, remind users to record, and analyze absorptance and polarization index of measured target.
6. High quality: The key parts are all imported components, to ensure accuracy and accurate.
7. Easy to use: one-piece chassis, small size, light weight, easy to carry.

8. Look beautiful: rugged and strong grinding material, the instrument's overall texture and longer life.



Product specifications and technical parameters

1. Measurement voltage range: 0.5kV, 1kV, 2.5kV, 5kV, 10 kV, 20kV.
2. Measurement voltage accuracy: $\pm(5\% + 10V)$.
3. Short circuit current: 10mA.
4. Measurement range and accuracy

Measurement range	Resistance measurement range	Accuracy
20M Ω	0.01 ~ 19.99M Ω	$\pm(5\% + 3d)$
200M Ω	5.0 ~ 199.9M Ω	$\pm(5\% + 3d)$
2G Ω	0.05 ~ 1.999G Ω	$\pm(5\% + 3d)$
20G Ω	0.5 ~ 19.99G Ω	$\pm(5\% + 3d)$
200G Ω	5.0 ~ 199.9G Ω	$\pm(10\% + 3d)$
2000G Ω	50 ~ 1999G Ω	$\pm(20\% + 10d)$

Note:

- (1) Calibration voltage of M Ω range is 0.5kV, G Ω range is 2.5kV.
- (2) Ensure the accuracy of resistance measurement test voltage range: more than 20% of the nominal value of the voltage range.
- (3) When the test voltage is higher than 8kV, for the accurate measurement of higher 20G Ω resistance, high voltage electrode conductor exposed to the air shield should be added to avoid the impact of air ionization.
- (4) 2000 G Ω range is the reference range, its application environment: relative humidity < 70%.
5. Anti-electric field interference ability: 2mA (50/60Hz).

6. Timekeeping and alarm functions: maximum value of stopwatch is 19 minutes and 59 seconds. 20 minutes for a cycle. The stopwatch will tell the time at these time

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points: 15 seconds, 60 seconds and every 60 seconds. When telling time, resistance readings hold for 3 seconds. If the measured resistance is below the lower limit of range, the reading is invalid and the instrument will continuously sound to give an alarm.

7. Display: three and a half bits LCD digital meter (three), respectively show test voltage, test resistance, test time.

8. Power supply

DC: 10×1.2V battery(2000mAh Ni-MH rechargeable battery), total DC12V power supply; AC: 220V (50/60Hz).

5. Operating Conditions:

Temperature: -20°C~40°C.

Relative humidity: 20 ~ 90%.

6. Dimensions: 315×240×180mm.

7. Weight: 5.5kg



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