

RDHL-100P Contact Resistance Measurement Kit

RDHL-100P Contact Resistance Measurement Kit adopts a high-frequency switching power supply and digital circuit technology, which is suitable for measuring the loop resistance of switching control equipment. The test results are displayed by large screen liquid crystal (LCD) with data storage functions, output printing, and time setting. The instrument's resolution can reach $0.01\ \mu\Omega$ and is very stable, meeting the on-site high-voltage switch maintenance requirements and the factory loop resistance test of the power and power supply departments. The Contact Resistance Measurement Kit applies to the high-precision measurement of the contact (loop) resistance of high and low voltage switches, the DC resistance of cable lines, and other occasions requiring large current and micro resistance measurement.



Product Features

1. High current: Using the latest switching power supply technology, it can continuously output high current for a long time, overcome the drawback of instantaneous current of pulse power supply, effectively break down the oxide film of switch contact, and get good test results.
2. High precision: It adopts dual high-speed 16-bit Σ - Δ AD sampling and the latest digital signal processing technology. The highest resolution reaches $0.01\ \mu\Omega$.
3. Intelligent: Using an imported high-performance CPU, the system automatically switches the range according to the signal size during measurement, ensuring the product's test accuracy. The over-temperature protection circuit can automatically stop the output current when the instrument exceeds the set temperature to ensure the instrument's safe use.

4. High quality: All the key components are imported, and a cleverly designed temperature compensation circuit effectively eliminates the influence of ambient temperature on the measurement results. The use of military connectors enhances the anti-vibration performance.
5. Powerful function: the current can be freely selected from 50A and 100A, and the test time can be set arbitrarily within 5s ~ 599s, which overcomes the defect that other similar instruments cannot put the measurement time or the continuous working time is too short Far exceeds the performance of other similar instruments.
6. Communication methods: able to communicate with the computer via USB data line, upload measurement data to a computer for further analysis and processing by test personnel



Product specifications and technical parameters

1. Measuring range: 0 ~ 2999.9 $\mu\Omega$
2. Resolution: 0 ~ 99.99, 0.01 $\mu\Omega$; 100.0 ~ 2999.9, 0.1 $\mu\Omega$
3. Test current: DC 50A, 100A, two fixed output
4. Measurement accuracy: $\pm (0.5\% \text{ rd} + 2\text{d})$
5. Continuous working time: 5s ~ 599s
6. Display mode: large-screen LCD
7. Data storage: 200 groups
8. Communication method: U disk transfer
9. Power supply: AC220V, 50Hz
10. Working environment: temperature -10 °C ~ 40 °C, humidity $\leq 80\% \text{ RH}$



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