CHARACTERISTICS

High accuracy measurement: The instrument is designed as a high-voltage test equipment that fully meets the power industry standards of the People's Republic of China. The general technical conditions DL / T846 and 8 - 2004 are adopted. The high-speed ARM processor and the 6 - channel high-resolution synchronous A / D converter are adopted, and the four-wire resistance measurement method eliminates the lead resistance and achieves high-precision standard measurement.

Light wave function: The instrument can record A, B and C phases simultaneously in three channels. The instrument can automatically capture and display the transition resistance and time jump during the transition process. It can work normally in complex environment and is far better than light oscillograph in precision and intelligence.

Comprehensive test capability: All kinds of parameters of on-load tap-changer can be comprehensively measured in one instrument. Such as switch selection, whether there is a break point, transition waveform, transition time, transition resistance, and three-phase synchronism in the whole process of switching. The time and resistance of each time period in the waveform can also be analyzed in further detail.

Man - machine control is perfect: 320× 240 (QVGA) high-resolution display is selected and driven by a high-speed microprocessor to realize a perfect man-machine interface, full Chinese character prompt, high-speed printing and intuitive and fast output results. The built-in help menu basically enables the operator to operate without looking at the instructions.

USB Storage Management: 100 test records can be stored inside the instrument. You can also connect U disk for data transfer, and the file system is fully compatible with the standard PC.

PC test function: PC can be connected to the instrument host through USB or RS232, and the instrument can be operated through special test software to analyze the test data in more detail.

PC test function: Anti - interference portable design: The instrument adopts an independent chassis structure with anti-seismic and anti-electromagnetic interference characteristics. The power supply has a wide working range and is designed as a three-phase independent constant current source. Compact structure, easy carrying and field measurement.

Technical specifications

1. Three independenty tested power supplies.Test voltage 24V. The test currents range from 0.1A to 5A and are available in a variety of models.
2. Instrument sampling rate 10kHz;
3. The maximum storage time of a single waveform is 268 milliseconds.
4. The test range,resolution,and accuracy of transition resistances are shown in the following table:

current	range	resolution	accuracy
0.1A	20~200Ω	0.1Ω	5.0%±0.1Ω
0.2A	20~100Ω	0.1Ω	2.0%±0.1Ω
0.5A	4~40.0Ω	0.01Ω	1.0%±0.1Ω
1A	1~20.0Ω	0.01Ω	1.0%±0.1Ω
3A	O.1~6.0Ω	0.01Ω	1.0%±0.1Ω
5A	O.1~4.0Ω	0.01Ω	1.0%±0.1Ω

5. Time measurement precision: the measurement range of action time is 0. LMS 268 ms, and the resolution is 0. LMS. The allowable deviation of action time in the range of 0. LMS - 100 ms is better than that of schlms. Action time is within 100 ms - 268 ms (excluding 100 ms), and the maximum allowable deviation is better than 1 % of soil.
6. Display: 320 * 240;
7. Processing part: high-speed 32 - bit microprocessor, the instrument can hold 100 pieces of data; `
8. High - speed 12 - bit 6 - channel synchronous A / D converter with a maximum sampling rate of 250 kHz;
9. Power supply: 220 V 10 %, power: 200 W.
10. Host size: 415× 320× 168 mm.
11. Weight: 6 kg