

RDB-IIH Portable Transformer Turn Ratio Tester

In the production process of semi-finished and finished power transformers, before the newly installed transformers are put into operation and according to the standards, it is required to test the turn ratio or voltage ratio of the running transformers, so as to check the correctness of the turn ratio of transformers, the condition of tap changer, whether the transformers are short circuited between turns, and whether the transformers can operate in parallel. The traditional bridge reading is not intuitive, so the conversion can only be carried out phase by phase. RDB-IIH portable transformer turn ratio tester overcomes the shortcomings of traditional ratio bridge test, which is easy to operate and intuitive. It adopts three-phase precision inverter power supply, and has fast test and high accuracy.



Product features

1. Three phase precision inverter is used in the instrument to eliminate the harmonic effect of the mains voltage and make the measurement more accurate. When the working power supply is generator, there is no influence.
2. Three phase output voltage is adopted to improve the test speed. The transformer connection group (0 ~ 11) can be automatically identified.
3. It is suitable for the measurement of a wide variety of transformers, such as Z-type transformer, rectifier transformer, grounding transformer, electric furnace transformer, phase-shifting transformer and balance transformer, with the most comprehensive measurement parameters.
4. High and low voltage reverse connection protection, transformer turn to turn short circuit protection, tap changer opening and closing not in place protection, output full short circuit protection, increase the stability of the instrument.
5. After inputting the rated parameters, it can automatically measure the transformer ratio, error value and tap changer tap position, especially for the tap changer with

asymmetric tap connection, it can also accurately measure the exact position of the transformer tap changer, which can measure up to 99 tap changers tap positions.

6. It adopts 7-inch high-definition color touch-screen LCD with modular display, and each operation step has menu prompt, so the instrument operation can be completed only by looking at the LCD prompt without manual.
7. No power down clock and data storage function, with U disk storage function
8. The multi-functional engineering plastic box with cold and temperature resistance, sealing and waterproof, anti-falling and anti-shock is adopted for field test.
9. Small size, light weight, portable operation.



Product specifications and technical parameters

1. Test range: 0.9~10000
2. Measurement accuracy: $\pm 0.1\% + 2$ digits (0.9 ~ 500)
 $\pm 0.2\% + 2$ digits (501 ~ 2000)
 $\pm 0.5\% + 2$ digits (2001 ~ 10000)
3. Resolution: minimum 0.0001
4. Output voltage: automatically adjusted according to the load
5. Power supply: built in rechargeable lithium battery or power adapter
6. Ambient temperature: $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$
7. Relative humidity: $\leq 85\%$, no condensation