

Transformer Ratio Meter

RDB-II & RDB-III

In the production process of semi-finished and finished power transformers, before the newly installed transformers are put into operation and according to the preventive test regulations of the Ministry of Electric Power, it is required to test the turn ratio or voltage ratio of the running transformers, 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 could be more intuitive, so the conversion can only be carried out phase by phase. RDB-III Transformer Ratio Meter overcomes the shortcomings of conventional ratio bridge tests. It is simple and intuitive to operate. It adopts a three-phase precision inverter power supply with fast test speed and high accuracy.





Product Features

1. A three-phase precision inverter is used in the Transformer Ratio Meter to eliminate the harmonic effect of the mains voltage and make the measurement more accurate. When the working power supply is a generator, there is no influence.
2. The three-phase output voltage is adopted to improve the test speed. The angle between phases can be measured, and the wiring group 0-11 can be automatically identified. For the low-voltage rectifier transformer measuring multiple windings, the low-voltage side can measure the transformation ratio and the angle deviation of 7.5° without removing the wiring.
3. It is suitable for a wide variety of transformers, especially Z-type transformers, rectifier transformers, grounding transformers, electric furnace transformers, phase-shifting transformers, balance transformers, Scott transformers, and reverse Scott transformers.

4. High- and low-voltage reverse connection protection, transformer turn-to-turn short circuit protection, tap changer opening and closing not in place protection, and output full short circuit protection increase the instrument's stability.
5. After inputting the rated parameters, it can automatically measure the transformer ratio, error value, and tap changer tap position. The tap changer with an asymmetric tap connection can also accurately measure the exact position of the transformer tap changer, measuring up to 99 tap changer tap positions.
6. It adopts a 7-inch high-definition colour touch-screen LCD with a modular display. Each operation step has a menu prompt, so the instrument can be operated only by looking at the LCD prompt without a manual.
7. The instrument has a printout, U disk interface and RS232 interface for a paperless office.
8. The multi-functional engineering plastic box is cold and temperature resistant, sealing and waterproof, anti-falling, and anti-shock, and it is adopted for field testing.



Product specifications and technical parameters

Picture		
Model	RDB-II	RDB-III
Test range	Variable ratio 0.9 ~ 10000	Variable ratio 0.9 ~ 10000, angle 0 ~ 360°
Angle accuracy		±0.2°
Resolution	Minimum 0.0001	Minimum ratio 0.0001, angle 0.01°
Weight	Main engine 5.9kg	Main engine 5kg
	Line box 5.7kg	Line box 5.5kg
Measurement accuracy	±0.1%+2 digits (0.9 ~ 500)	
	±0.2%+2 digits (501 ~ 2000)	
	±0.5%+2 digits (2001 ~ 10000)	
Output voltage	Automatically adjusted according to the load	
Working power supply	AC220V±10%, 50±1Hz	
Ambient temperature	-10°C ~ 40°C	
Relative humidity	≤85%, no condensation	
Overall dimension	Host 360*290*170(mm)	
	Line box 360*290*170(mm)	



Related Products



RDB-II

RDB-III



RDB-IIH



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