

RDRB-IV SFRA Test Equipment

RDRB-IV SFRA Test Equipment is used

for power transformer with voltage grade of 6kV and above and other transformers

with special purpose. The power

transformer is inevitably vulnerable to

impulse of various fault short-circuit

current or physical collision in the process of operation and transportation and the

transformer windings may lose stability under the powerful electro-dynamic force

exerted by such short-circuit current, which could result in permanent deformations

such as local distortion, swell or dislocation and will severely affect safe operation of

the transformer. Deformation of transformer windings is measured with frequency

response analysis method according to national standard DL/T911-2016/IEC60076-18

for electric power industry, i.e. detect amplitude-frequency response characteristic of

each transformer winding and make vertical or horizontal comparison of the detection

result to judge possible deformation of the transformer winding based on change of

amplitude-frequency response characteristics.



Product features

1. Characteristics of transformer windings are measured with frequency sweep method. Deformations of windings such as distortion, swell or displacement of 6kV and above transformer are measured by detecting amplitude-frequency response characteristics of each winding, not requiring lifting of transformer enclosure or disintegration.
2. Quick measuring, measuring of a single winding is within 2 minutes.
3. High frequency accuracy, higher than 0.001%.
4. Digital frequency synthesis, with higher frequency stability.
5. 5000V voltage isolation fully protects safety of the testing computer.

6. Analysis software has powerful functions and software and hardware indicators satisfy national standard DL/T911-2016/IEC60076-18.
7. Software management is humanized with high degree of intelligence. You only need to click one key to complete all measurements after setting of parameters.
8. The software interface is concise and vivid, with clear menus of analysis, save, report export, print, etc.




Main Features of Test Analysis Software

1. Use windows platform compatible with Windows 2000/Windows XP/Windows 7/windows 8/Windows10.
2. Use database to save test data and render concise and easy data management.
3. Able to load 9 curves at the same time and automatically calculate parameters of each curve and diagnose winding deformations to provide the reference diagnosis conclusion.
4. Software management function is powerful that takes into full account of site use demand. Measuring data is automatically saved and exported to form Word version test report (require installation of relevant Office software) or JPG photo report to facilitate the user to export test report.
5. The software has distinctive humanized feature. Measuring conditions are mostly options, which exempt the need of many inputs and bring about easier operation.
6. The software has high degree of intelligence. You only need to click one key to complete all measurements after connection of input and output signals.
7. The software interface is concise, vivid and practical.



Product specifications and technical parameters

Picture		
Model	RDRB-IV	
No.	Parameters	Value
1	Measuring Speed	1 min- 2 min for single-phase winding
2	Output Voltage	V _{pp} -25V, adjusting automatically in test
3	Output Impedance	50Ω
4	Input Impedance	1MΩ (the response channel is built with 50Ω matching resistance)
5	Frequency Sweep Scope	10Hz-2MHz
6	Frequency Accuracy	0.001%
7	Frequency Sweep Manner	linear or logarithmic, frequency sweep interval and number of sweep points are freely settable
8	Curve Display	Mag-freq. curve
9	Measuring Dynamic Range	-100dB~20dB
10	Power Source	AC100-240V 50/60Hz



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