

## Frequency Response Analyzer (FRA) for Power

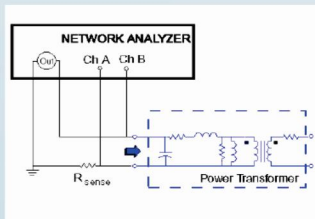
Frequency Response Analysis, generally known as FRA, is a powerful diagnostic test technique. FRA consists of measuring the impedance of transformer windings over a wide range of frequencies and comparing the results of these measurements to a reference set. Differences may indicate damage to the transformer, which can be investigated further using other techniques or by an internal examination.

### Measurement Method

The swept frequency method for FRA requires the use of a network analyzer to generate the signal, take the measurements and manipulate the results.

The swept frequency method offers the following advantages over the impulse response method:

- Better signal to noise ratio
- Accuracy and precision across the whole measurement range
- Wider range of frequencies



### Test Setup

The network analyzer is controlled by a laptop computer. This reduces the probability of human error and speeds measurement. The data is stored in a database for overlay and comparison with reference / old data.

Data export to Excel format for analysis.