

KPM Transformer Turns Ratio Meter (KPM-TTR3)



KPM's Transformer Turns Ratio Meter (KPM-TTR3) is used to measure the voltage ratio of 3ph or 1ph phase transformer. All the data and test results are showed on a 320*240 LCD. All the test results can be printed onsite by the micro printer . KPM TTR3 is having an inbuilt memory to save the test results. Advance Noise Reduction circuitry makes it ideal for field conditions.

Functions

- ❖ The voltage ratio measurement of three or single phase transformer
- ❖ The group vector measurement of three phase transformer.
- ❖ The polarity measurement of single phase transformer or CT/PT (CT that knee-point voltage should be more than 80V)
- ❖ Voltage ratio error calculation
- ❖ Turns Ratio Measurement at different tapings (Automated feature)
- ❖ Excitation current measurement .
- ❖ Current transformer ratio measurement
- ❖ Excitation current measurement in ratio testing

- Advance Noise Reduction
- Easy Operation
- Automated Sequence for Tap Changer Testing
- Excitation Current Measurement
- PC Connectivity & report generation
- Onboard Printer

Technical Specifications

- ❖ Ratio measurement range : 1—10000
- ❖ Group measurement : 1—12
- ❖ Ratio measurement error : 1—2000 $\pm 0.2\%$
2000—10000 $\pm 0.5\%$
- ❖ Power supply : AC220V $\pm 10\%$, 50Hz
- ❖ Size 400 x 350 x 200 mm³
- ❖ Weight 7kg

Connection Diagram

The total connection ports of the tester are 6. HV ports are marked as "A,B,C" while LV ports are marked as "a,b,c"

- ❖ Three phase transformer test

A,B,C are connected to the HV side terminal A,B,C of transformer and a,b,c are connected to the LV side terminal a,b,c of transformer

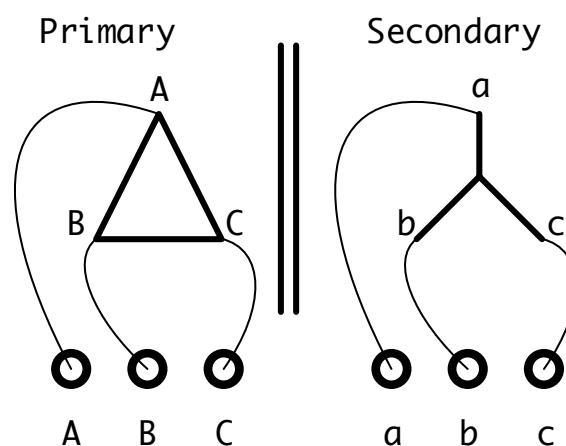


Figure 1

KPM Transformer Turns Ratio Meter (KPM-TTR3)

❖ Single phase transformer and PT test

A,B are connected to HV side terminal of single phase transformer/PT and a,b are connected to LV side terminal of single phase transformer/PT. C and c are connected to nothing.

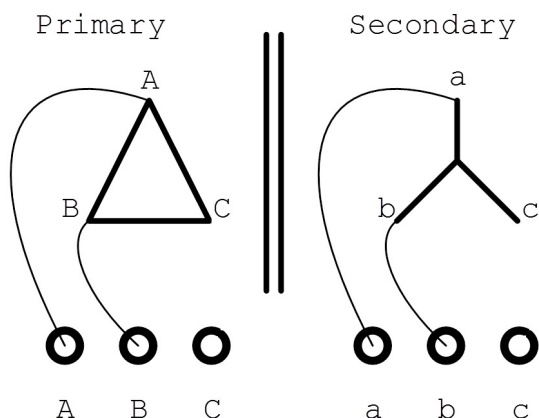


Figure 2

❖ CT test

A,B are connected to secondary of CT and a,b, are connected to primary of CT. C and c are connected to nothing.

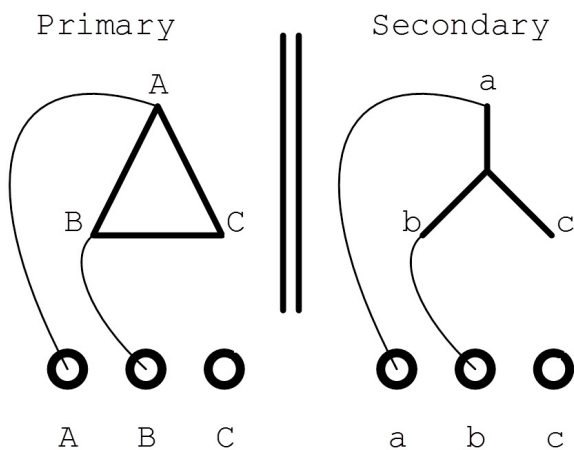
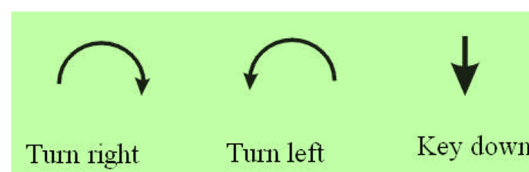


Figure3

Input Switch Functions

The input switch is the input interface of the tester. The input switch includes 3 function keys.

The detail function of those keys is show in figure 1. Turn right and turn left keys are menu selection keys. The functions of key down are ok and selection.



Measurement Screen

AB	BC	CA
Ratio:	Ratio:	Ratio:
Group:	Group:	Group:
Error:	Error:	Error:
Range:	Range:	Range:
Current:	Current:	Current:
Time: xxxx-xx-xx xx:xx:xx		Mode:
<input type="button" value="Return"/>	<input type="button" value="Save"/>	<input type="button" value="Print"/>
<input type="button" value="Rteum"/>		

- 1) **Ratio** : The measured ratio value
- 2) **Group** : It is the group vector for three phase transformer. It shows the same polarity or reverse polarity for single phase transformer, PT and CT.
- 3) **Error** : The error of standard ratio and measured ratio
- 4) **Range** :The range of primary HV voltage
- 5) **Current** : The coil excitation current in test voltage

Contact Us

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