

T-203H

Automatic Transformer Turns Ratio Tester

T-203H automatic transformer turns ratio tester adopts three-phase power supply output voltage, the test speed Instrument to adopt advanced technology for A/D, wide range range; High speed ARM as the core digital processor, test quickly; English menu display, Elaborate and handheld design, makes the T-203H TTR tester superior and powerful with small size and light weight. The TTR tester uses a programmable signal source technology. It is especially suitable for special transformers such as Z-type transformers, rectifier transformers, Scott or anti-Scott transformers, etc.

The T-203H TTR tester adopts the new algorithm developed by our company to measure the ratio of three-phase transformer and ensure the measurement accuracy without adjusting the balance of the three-phase power supply. Therefore, the transformer turns ratio and wiring method can be measured in one minute.



Features

1. Input single power, internal digital combination standard sine wave test source output
2. Phase angle measurement function: measure the phase angle between high voltage side and low voltage side. Measure the turns ratio and phase angle of "Non integral point" transformer
3. It can conduct single-phase measurement and three-phase winding automatic test. Three phase turns ratio value, phase angle value, error, tapping position, tapping value can be measured for once. It also can identify connecting group number automatically
4. Testing results can be displayed in the form of digit and hexagon vector diagram, which makes transformer connecting group can be made out obviously
5. With blind test function: There is no need to choose connecting method and group. When measuring Y/Δ , Δ/Y transformer, no external short-circuit is needed, connecting method can be shifted automatically according to the chosen testing contents
6. With tapping test function: TTR and TTR error in the position of each tapping switch can be gauged quickly. Just input rated TTR once, instead of inputting over and over again, TTR error in tapping position can be calculated
7. With functions of turns ratio measurement and voltage TTR measurement
8. With 5.6 inch color LCD, the effect of data & figure display is visualized and fine
9. With small size and light weight, it is easy to carry
10. With built-in high capacity chargeable lithium battery. Test can be conducted without any power supply on site, and once the battery is charged fully, it can make measurement for more than 500 times continuously

Parameters

| Electrical parameters | | |
|-----------------------------|---------------------------------------|--------------------------|
| Power supply | 7.2V Lithium-ion rechargeable battery | |
| Test power | AC 24V | |
| Data storage | 500 group | |
| TTR measurement accuracy | Range1 | 0.8-3000: 0.1%±2words; |
| | Range2 | 3000-10000: 0.2%±2words; |
| Display precision | 5 Bits, resolution ratio: 0.0001 | |
| Phase angle accuracy | 0.1° | |
| Voltage accuracy on HV side | 0.05% | |
| Voltage accuracy on LV side | 0.10% | |
| LCD | 5.6" color LCD display | |
| Key | 30 pcs | |
| Communication port | RS232 , USB | |
| Standard | IEC61010-1, IEC61326-1 | |
| Mechanical parameters | | |
| Dimension (L×W×H) (mm) | 260x160x60 | |
| Weight (kg) | 3 | |
| Environmental conditions | | |
| Operating temperature | -10°C to 50°C | |
| Storage temperature | -20°C to 70°C | |
| Relative humidity | ≤85%RH | |

| Voltage ratio tester | | NO:141357 | 14-12-04 |
|----------------------------------|---------|-------------------------|----------|
| | | Ver5.0000 | 10:08:13 |
| Sum:007 | No:001 | 2017-03-04 16:22:55 | |
| Serial Num:123456 | | Number of tapping:03 | |
| Equal tapping level: 5.0% | | Rated turn ratio:23.753 | |
| Result : | AB | BC | CA |
| Tapping | 23.753 | 23.753 | 23.753 |
| Ratio | 23.6209 | 23.6526 | 23.8092 |
| Error | -0.554% | -0.421% | +0.239% |
| Angle | -0.07° | -0.07° | -0.07° |
| Group | 0 | 0 | 0 |
| Press [F2]to USB, [F3] to Delete | | | |

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|--------------------------|--------|-----------|----------|------------------|
| | | Ver5.0000 | 10:08:13 | |
| | Uab | Ubc | Uca | Current tapping: |
| High | 0.000V | 0.000V | 0.000V | |
| Low | 0.000V | 0.000V | 0.000V | Current |
| Phase | 0.00° | 0.00° | 0.00° | tapping:02 |
| Tx ratio: | AB | BC | CA | vectorgraph: |
| Tapping | 25.000 | 25.000 | 25.000 | |
| Ratio | 25.000 | 25.000 | 25.000 | |
| Error | 00.00% | 00.00% | 00.00% | |
| Group: | AB | BC | CA | |
| Phase | 0.00° | 0.00° | 0.00° | |
| Group | 0 | 0 | 0 | |
| Test count:57 | | | | |
| Test status:Test is over | | | | |
| Press [Save] [Return] | | | | |

