

HZCT-100C CT PT Analyzer



Dear user:

Thank you for choosing HZCT-100C CT PT Analyzer.

We hope that this instrument can make your work easier and more enjoyable, so that you can get the feeling of office automation in the test and analysis work.

Before using the instrument, please read this manual, and operate and maintain the instrument according to the manual to prolong its service life. "Just a light press, the test will be completed automatically" is the operating characteristics of this instrument.

If you are satisfied with this instrument, please tell your colleagues; if you are not satisfied with this instrument, please call (0312) 6775656 to tell you to serve you at all times-Baoding Huazheng Electric Manufacturing Co., Ltd., our company will definitely make you satisfied !

Safety Precautions

1. In order to protect both the instrument and the instructor, please read the reference manual details before testing, and operate strictly with the requirements of the manual.
2. Do not place the instrument on unsteady platform or desk, to prevent it from falling and being damaged.
3. The fan and ventilation holes of instrument side is for ventilating and cooling, so do not plug to ensure the instrument work normally.
4. This is a precision electronic instrument, do not place it under the burning sun to insolate or in high temperature environment in outdoor. And pay attention to keep it out of the sun and keep it in ventilated environment, to prevent overheating to cause instrument measurement precision decline
5. As a safety measure, the instrument is equipped with protective earthling terminal. the pilot should be installed prior to the grounding terminal side of a reliable ground.
6. The power supply of the instrument is 220V (50/60Hz) AC power, and you should choose 10A or more power line.
7. Do not let any foreign body into the case, in order to avoid short circuit.
8. Please bedding some buffering content such as sponge around the instrument when transport, to avoid vibration to damage the instrument or reduce the accuracy of the instrument
9. Do not arbitrarily delete the preservation of the history test records in the host, to avoid test data loss.

Our Company reserves the right to amend this statement; we will not inform you then. if you have any other technical problems.

Notes:

- ◆ When doing the measurings, primary side and secondary side don't connect with the load.
- ◆ When measuring the load, the testing load should not exceed the maximum measurement range.

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I. Instrument Characteristics And Parameters

1.1 Characteristics

- ★ Full-featured, not only satisfy the test requirements of various CTs (include TP class), such as the excitation characteristics (i.e., volt-ampere characteristics), ratio, polarity, secondary winding resistance, secondary burden, ratio error and phase displacement, but can also be used for the tests of various PTs, including excitation characteristics of the electromagnetic unit, ratio, polarity, secondary winding resistance, ratio error and phase displacement.
- ★ Automatically give CT, VT parameters, including knee point voltage / current, 10% error curve, the accuracy limit factor (ALF), instrument security factor (FS), the second time constant (Ts), remanence coefficient (Kr), saturated and unsaturated inductance etc.
- ★ Test meet IEC60044 GB1208 (-1) GB16847 (IEC60044-6) became etc all kinds of transformer standards, and in accordance with the transformer types and levels of automatic choose which standard test
- ★ Based on advanced principle of low-frequency test method that can meet the CT test on knee voltage up to 30KV.
- ★ Friendly interface beautiful, all Chinese graphic interface
- ★ The instrument can store 2000 groups of test data that won't be lost when power off. After test ended, the data can be copied to PC by USB disk for analysis and being transformed into WORD report.
- ★ Test is simple and convenient, one-click can complete tests of CT secondary resistance, excitation, ratio and polarity.
- ★ Easy to carry, because the weight is less than 9Kg.

1.2 Panel

The instrument panel structure is as shown in right figure.

- Red S1, black S2 terminal: test power output
- Yellow M1, black M2 terminal: measure output voltage
- Green P1, black P2 terminal: measure inductive voltage



1.3 Technical Parameter

		Transformer Tester
Usage		CT & VT
Output		0~180Vrms, 12Arms, 18A (peak value)
CT Ratio	Range	1~40000
	accuracy	±0.05%
PT Ratio	Range	1~40000
	accuracy	±0.2%
Phase	Range	±5min
	accuracy	0.5min
DC resistance	Range	0~300Ω
	accuracy	2%±2mΩ
Burden	Range	0~300VA
	accuracy	2%±0.2VA
Power supply		AC220V±10%, 50/60Hz
Environmental Conditions		Operating temperature :-10°C ~50°C, Humidity :≤90%
Weight and Dimensions		Dimensions:340 mm×300 mm×150mm,Weight<9kg