CTC760E

CT/PT Analyzer

Focusing on designing and manufacturing portable HV test equipment.
PD detector, HV Switchgear analyzer, CT/PT analyzer, Micro-ohmmeter, Capacitance& Dissipation factor tester.

HANDY

Electrical Instruments Professional Manufacturer

CT/PT Analyzer
CTC760E

CTC760E Instrument transformer analyzer can carry out a series of standard tests quickly, such as determining the magnetization characteristic, saturation behavior (ALF/FS), transformation ratio and its accuracy, polarity, load, winding resistance, or remanence. Tests are performed in accordance with standards: IEC60044-1, IEC60044-6, IEC 61869, ANSI/IEEE C57.13.1.

FEATURES

- Use direct current method and variable frequency method (low frequency method) testing CT excitation characteristic below 80KV, working fast.
- Use both “voltage method” (through secondary injection)testing current transformer ratio and polarity (include transformer bushing CTs).
- Built-in power supply has an output current mode. Can use current method test current transformer ratio, polarity
- and check the integrity of the CT secondary circuit.
- Output up to 200A with external current booster (option)
- Test current transformer secondary winding DC resistance.
- Test current transformer secondary circuit burden.
- Test voltage transformer excitation characteristic, ratio, polarity and secondary winding DC resistance.
- Draw the excitation curve and calculating the knee point accordance to IEC60044-1 and IEC60044-6.
- Draw 5%, 10% CT error curve.
- Measure CT’s ratio error and phase displacement.
- Measure CT’s remanence factor, magnetizing inductance, secondary loop time constant, transient dimensioning factor, peak instantaneous error, accuracy limit factor, instrument security factor.
- Draw current transformer Hysteresis loop curve
- Transparent display shows values and curve clearly both indoor and outdoor.
- High speed thermal printer can print values and curve.
- Check the connecting cable automatically. Wrong connecting warning instructions.
- Built-in large memory storage can store 20000 winding test values, loss of power without loss of values.
- Use a USB flash drive to transfer the values to PC, and generate report.
- Use a USB flash drive to update software.

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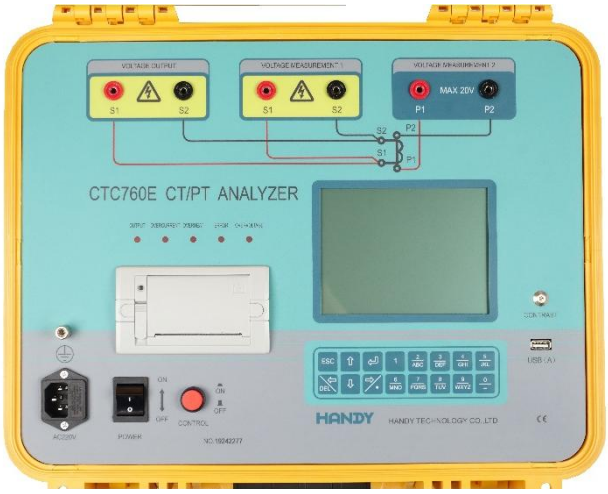
SPECIFICATIONS

Voltage	
Output	0 to 360V AC Power 0 to 3600VA
Sec Voltage Measurement Range	2 to 360V AC
Sec Voltage Measurement Accurancy	±(0.1%U+20mΩ)
Prim Voltage Measurement Range	0 to 20V AC
Current	
Output	0 to 10A rms Peak 20A
Output Measurement Range	0.01A to 10A AC
Output Measurement Accurancy	±(0.1%I+2mA)
Sec Current Measurement Range	0 to 5A AC
Sec Current Measurement Accurancy	±(0.1%I+2mA)
Ratio and Phase	
Ratio Measurement Range	1 to 35000
Ratio Error at Rated Current	±0.1%@1 to 5000
	±0.2%@⩾5000
Phase Displacement at Rated Current	3min@cosφ=0.8 to 1
Resolution	±0.2%
Winding Resistance Measurement	
Range	0 to 300Ω
Resolution	1mΩ
Accurancy	±(0.1%R+1mΩ)
AC Burden	
Range	0 to 1000VA
Resolution	0.001VA
External Current Booster (Optional)	
Output Current	0 to 200A AC
Output Time	8min@150A
Size	327×282×218mm
Weight	12kg
Operating Enviroment	
Power Supply	198 to 264V AC, 47 to 63Hz
Temperature	-10°C to 50°C
Humidity	⩽90%RH non-condensing
Dimensions	
Size	427×357×193mm
Weight	11kg

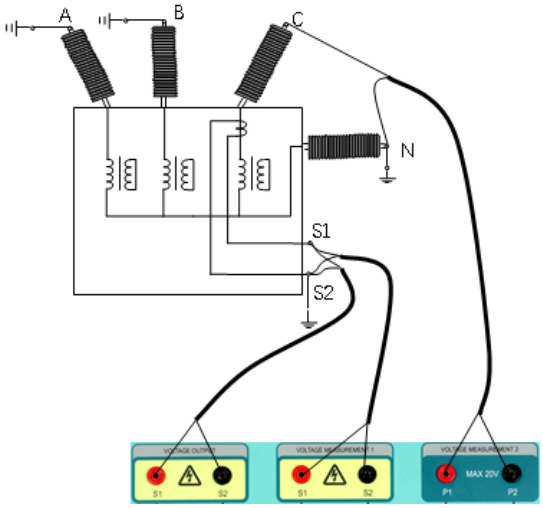


HANDY

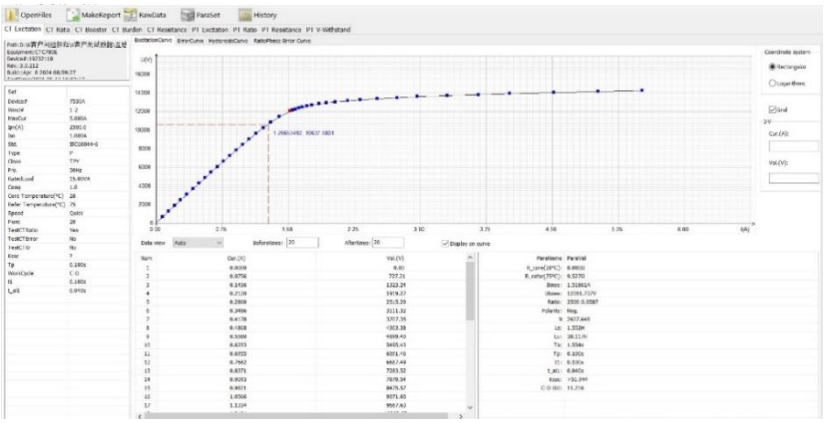
Choose IEC60044-1 or IEC60044-6 standard to test the following types of transformers

- IEC60044-1
  - Accuracy class — P (Protective CT)
    - 5P
    - 10PX
    - 5PX
    - 10P
  - Accuracy class — M (Measuring CT)
    - 0.2S
    - 5
    - 3
    - 1
    - 0.5
    - 0.2
    - 0.1
    - 0.5S
- IEC60044-6
  - TPY
  - TPZ
  - TPS
  - TPX

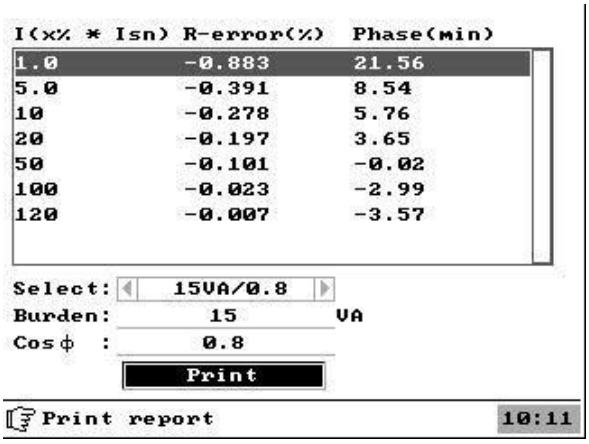
Connection of Transformer Bushing CT



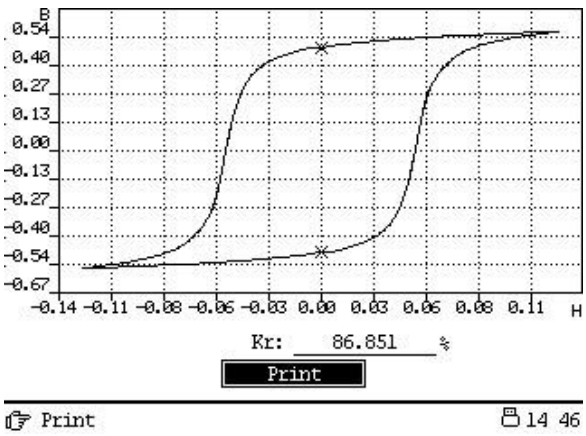
Opening data and generate report on PC



Ratio Error& Phase Displacement



Hysteresis Loop



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