



1.1 Functions

Tests for current transformer:

- 1) Excitation curve and parameters test
- 2) Turns ratio test
- 3) Ratio and phase error test
- 4) Polarity mark check
- 5) Coil resistance measurement
- 6) Secondary loop burden measurement
- 7) Error line curve test for protection CT
- 8) Transient CT parameters test
- 9) Search nameplate parameters for unknown data CT

Tests for voltage transformer:

- 1) Excitation curve test
- 2) Turns ratio test
- 3) Polarity test
- 4) Secondary burden test
- 5) Coil resistance test



1.2 Technical index

- 1) Test standards: IEC60044-1, IEC60044-6, IEC60044-2, IEC60044-5, C57.13
- 2) Power output: 0.1~125V (AC)
- 3) Current output: 0.001~5A(RMS)
- 4) Power output: 300VA
- 5) Test frequency: 0.1~60Hz
- 6) Maximum knee voltage measurements: 45kv
- 7) Current measurement:
Range: 0~10A (automatically change range in 0.1/0.4/2/10A)
Error $< \pm 0.1\% \text{RDG} + 0.01\% \text{FS}$
- 8) Voltage measurement:
Range: 0~200 V (automatically change range in 1V/10V/70V/200V)
Error $< \pm 0.1\% \text{RDG} + 0.01\% \text{FS}$
- 9) Turns ratio measurement:
Range : 1~30000,
1~1000 error $< 0.05\% \text{RDG}$
1000~2000 error $< 0.1\% \text{RDG}$
2000~30000 error $< 0.2\% \text{RDG}$
- 10) Phase measurement: error $< \pm 2 \text{min}$, resolution: 0.01min
- 11) Coil resistance measurement:
Range: 0~8k Ω (automatically change range in 2ohm/20ohm/80ohm/800ohm/8kohm)
Error $< 0.2\% \text{RDG} + 0.02\% \text{FS}$
Maximum resolution: 0.1m Ω
- 12) Temperature measurement: -50~100 Celsius degree, error < 3 Celsius degree
- 13) CT Secondary burden:
Range 0 ~ 160ohm (automatically change range in 2ohm/20ohm/80ohm/160ohm)
Error $< 0.2\% \text{RDG} + 0.02\% \text{FS}$
Maximum resolution 0.001ohm
- 14) PT Secondary burden:
Range 0 ~ 80kohm (automatically change range in 800ohm/8kohm/80kohm)
Error $< 0.2\% \text{RDG} + 0.02\% \text{FS}$
Maximum resolution: 0.1ohm
- 15) Saved data groups: >1000groups
- 16) Power supply: AC220V $\pm 10\%$, 50Hz/60Hz
- 17) Work condition: Temperature: -10 $^{\circ}\text{C}$ ~ 50 $^{\circ}\text{C}$, moist: $\leq 85\%$
- 18) Size: 485mm \times 356mm \times 183mm
- 19) Weight: <13Kg