



GDHG-206 CT/PT On-site Calibrator



Product Description

GDHG-206 CT/PT On-site Calibrator is designed for analyzing current transformers and voltage transformers of ratio error, angle error, ratio error/angle error of 1%-200% current. It can directly measure turns ratio and polarity, actual secondary burden of CT/PT.

The model uses DC and AC power supply with high precision and automatic linear adjustment. High speed and reliable digital processing module is also adopted.

Features

- 320*240 LCD screen display.
- Finish error measurement of CT/VT by single machine, convenient for on-site calibration.
- Field calibrating CT/PT. No need standard CT/VT, current injector, voltage booster, Current/Voltage load box, control unit and primary current injection cable. The wiring is very simple, greatly improve working efficiency.
- There is standard CT inside that the turns ratio is the same with tested CT, which the accuracy is class 0.02.
- Anti-interference of power frequency electromagnetic radiation and series connection.
- Broad measurement range. It can measure both standard ratio and non-standard ratio CT.
- Direct analyzing the data if it is pass or fail.
- Measure standard CT or non-standard CT 1%-120% rule point error(angle error and ratio error).
- Measure standard CT or non-standard CT 1%-200% any point error(angle error and ratio error).
- One time testing and display error of upper limit burden and lower limit burden of CT.
- One time testing and display error at any actual burden of CT.
- Test known and unknown polarity and turns ratio of CT, and determine actual current ratio of unknown CT and roughly determine if the secondary current is 5A or 1A.
- 20%-120% error measurement of VT.

- One time testing and display error of upper limit burden and lower limit burden of VT.
- One time testing and display 2groups of rule point error at any actual burden of VT.
- Measure turns ratio and polarity of VT.
- Automatic judging the connection status. It will display wrong connection, wrong turns ratio and polarity.
- Save and print test result.
- With USB port, easy to transmit data to PC.

Specifications

- CT Turn Ratio Range: 5A/5A- 25000A/5A (5A/1A- 5000A/1A)
- Turn ratio error $\pm 0.2\%$
- Error Measurement Range: 5A/5A- 5000A/5A (5A/1A- 5000A/1A)
- Accuracy of tested CT: 1.0, 0.5, 0.5S, 0.2 and 0.2S
- For the testing point of 1% or 5%, the error mainly depends on the deviation of signal collection by the tester, that is the deviation of dial indicator reading and deviation of 1turn center position.
- Accuracy: $\pm 0.05\%$, see below table

Rated Current	Measurement Error	
	Ratio Error($\pm\%$)	Angle Error($\pm'$)
5%	0.10	4
20%	0.05	4
100%	0.05	2
120%	0.05	2

200%	0.05	2
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- VT Turn Ratio Range: $\pm 0.2\%$
- Error Measurement Range:

Primary voltage: $3-35\text{kV}/\sqrt{3}$

Secondary voltage: 100V, $100\text{V}/\sqrt{3}$, 6kV/100V, 10kV/100V, 20kV/100V, 35kV/100V, $6\text{kV}/\sqrt{3}/100\text{V}/\sqrt{3}$, $10\text{kV}/\sqrt{3}/100\text{V}/\sqrt{3}$, $20\text{kV}/\sqrt{3}/100\text{V}/\sqrt{3}$, $35\text{kV}/\sqrt{3}/100\text{V}/\sqrt{3}$, $66\text{kV}/\sqrt{3}/100\text{V}/\sqrt{3}$, $110\text{kV}/\sqrt{3}/100\text{V}/\sqrt{3}$

Power factor: 0.0-1.0

- Accuracy: $\pm 0.05\%$, see below table

	Measurement Error	
Rated Voltage	Ratio Error($\pm\%$)	Angle Error($\pm'$)
80%	0.050	2
100%	0.050	2
120%	0.050	2

- DC resistance: 0.0-0.1 Ω $\pm 3\%$

0.1-50 Ω $\pm 1\%$

- CT secondary burden: 1 Ω -25 Ω $\pm 2\%$
- PT secondary burden: 1VA-500VA $\pm 2\%$
- Calibration:

Voltage range: 0-100V (Dial indicator error 0.5%)

Ratio error: 0.001%-3% (100V)

Angle error: 0.00'-50' (100V)

Error: $DX = \pm(2\% \times X + 2\% \times Y \pm 2\text{digit})$, $DY = \pm(2\% \times X + 2\% \times Y \pm 2\text{digit})$

Admittance: 0.1ms-99.9ms

- Power supply: AC 220V $\pm 10\%$, 50Hz $\pm 2\%$
- Environment temperature: 0-40 $^{\circ}\text{C}$
- Consumption: 30W(static), 150W(working)
- Humidity: <85% at 25 $^{\circ}\text{C}$
- Dimension: 472*355*168mm, weight is about 6kg.

Packaging & Shipping

- Main Unit 1pcs
- Power Cord 1pcs
- Test Lead 1pcs
- Alligator clamp 4pcs
- Print paper 1pcs
- Fuse 0.5A 3pcs
- Factory Test report 1pcs
- User's Guide 1pcs