



GDPT-103C Onsite Calibrator for CVT



General information

GDPT-103C CVT On-site Calibrator is designed for analyzing and Calibrate CVT for on-site test.

Features

- 640*480 high resolution 10.4 inch LCD touch screen,
- Single machine to realize error test of CVT, no need resonant voltage injection device, standard VT, load box, calibrator, greatly improve working efficiency and simplify the connection.

- Broad test range, 35/ $\sqrt{3}$ kV/100/ $\sqrt{3}$ V, 100/3V-1000/ $\sqrt{3}$ kV/100/ $\sqrt{3}$ V, 100/3V.
- Test 3pcs secondary winding of CVT at the same time.
- Internal inductive voltage divider of class 0.02 and using difference measurement to test LV error of tested CVT. Inter-frequency testing technology is adopted, and calculating the non-linear error of intermediate transformer at 50Hz, to obtain the CVT error finally. The test accuracy is up to class 0.05.
- Test capacitive divider ratio of CVT and check if the nameplate is the same with CVT or not.
- During testing, max. test voltage is no more than 3kV, to ensure safety of on-site testing.
- Easy wiring.
- Test time is short, less than 5 mins.
- Using accurate software calculation, test data is more accurate.
- Automatic judging the connection status. It will display wrong connection, wrong turns ratio and polarity.
- Automatic rounding test data and determine if it is over error or not.
- It will show the test result pass or fail directly.
- Save up to 1000pcs test data.
- With printer, to print test data directly.
- With engineering plastic case, anti-shock.

III. Technical specifications

Under test transformer type	Electromagnetic, capacitance voltage transformer
Test range of turns ratio	<p>6kV / 100V, 6kV/$\sqrt{3}$/ 100V/$\sqrt{3}$</p> <p>10kV / 100V, 10kV/$\sqrt{3}$/ 100V/$\sqrt{3}$</p> <p>35kV / 100V, 35kV/$\sqrt{3}$/ 100V/$\sqrt{3}$</p> <p>110kV /100V, 110kV/$\sqrt{3}$/100V/$\sqrt{3}$</p> <p>220 / 100V,220kV/$\sqrt{3}$/100V/$\sqrt{3}$</p> <p>Accuracy:0.02%</p>
Error measurement accuracy	0.05%
Partial pressure ratio measurement accuracy	0.5%
Partial capacitance measurement accuracy	2%
DC resistance measurement accuracy	<p>0~0.1Ω 3%</p> <p>0.1~50Ω 1%</p>
Working environment	<p>temperature:5°C~40°C , humidity:<80%(25°C)</p> <p>Altitude:<2500m , power frequency:50\pm0.5Hz</p>

Verification part	<p>voltage range: 0~100V (percentage error 0.5%)</p> <p>Ratio difference: 0.001%~3% (100V)</p> <p>Angle difference: 0.00'~50' (100V)</p> <p>Error: $*X=\pm(2\% \times X + 2\% \times Y \pm 2 \text{ words})$</p> <p>$*Y=\pm(2\% \times X + 2\% \times Y \pm 2 \text{ words})$</p> <p>Admittance: 0.1ms~99.9ms</p> <p>Error: $*X=\pm(2\% \times X + 2\% \times Y \pm 2 \text{ words})$</p> <p>$*Y=\pm(2\% \times X + 2\% \times Y \pm 2 \text{ words})$</p>
Dimension	496*394*185 mm
Weight	About 14kg