

EZCT-10

Current Transformer Test Set



Vanguard Instruments Company

HV TEST (PTY) LTD

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EZCT-10™

Current-Transformer Testing Made Easy

The Model EZCT-10™ is a microprocessor-based, current-transformer test set. This rugged and portable test set measures excitation current, turns ratio and winding polarity on single- and multi-ratio current transformers. Current transformers can be tested in their field-mounted configuration, eliminating the need to remove bushings or current transformers from the host equipment.

Saturation Test

The EZCT-10™ provides a variable test voltage up to 1,200 Vac applied to the current transformer for the saturation test. The EZCT-10™ records and displays the test voltage and excitation current of the current transformer during the excitation test. Once the test is completed, users can plot up to 10 excitation curves and knee-point voltages of the test.

Ratio and Polarity Test

The EZCT-10™ determines the current-transformer turns ratio by accurately measuring the voltages across the primary and secondary windings (a direct proportion) and then displaying the voltage ratio. Turns ratio is measured from 0.8 through 5,000 to 1.0 with an accuracy of 0.5% or better. Winding polarity displays as a + or - sign and is also annotated with the phase in degrees.

Operator Interface and Display

The EZCT-10™ displays messages on a 4 line by 20 character, sunlight-view-

able LCD panel readout. The LCD is backlit so messages can be viewed in low light levels. An alpha-numeric keypad allows users to enter test information and control functions. The test-voltage range (50V, 250V, 1,200V) is selected with a switch on the control panel. The variable test voltage output is controlled by a "Voltage-Control-Knob."

Thermal Printer

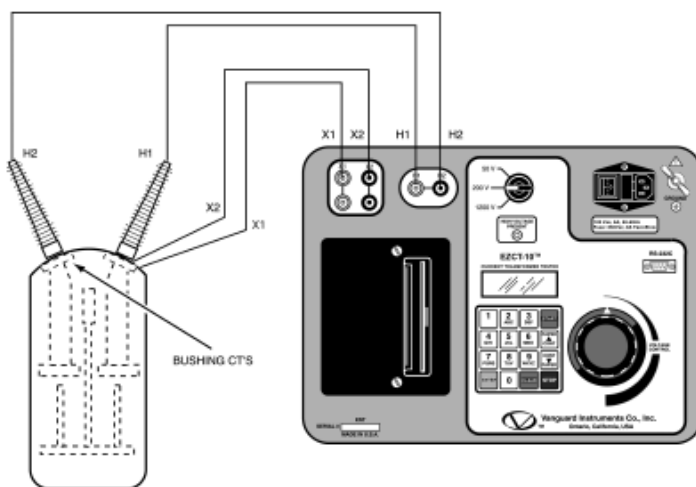
A 4.5 inch-wide built-in thermal printer prints the current transformer test report and plots the saturation curves.

Test-Result Storage Capacity

The EZCT-10™ can store up to 128 current-transformer test records in Flash EEPROM. Each test record may contain up to 10 saturation curves, polarity, and turns-ratio test data. Test records can be recalled and printed by the thermal printer.

Computer Interface

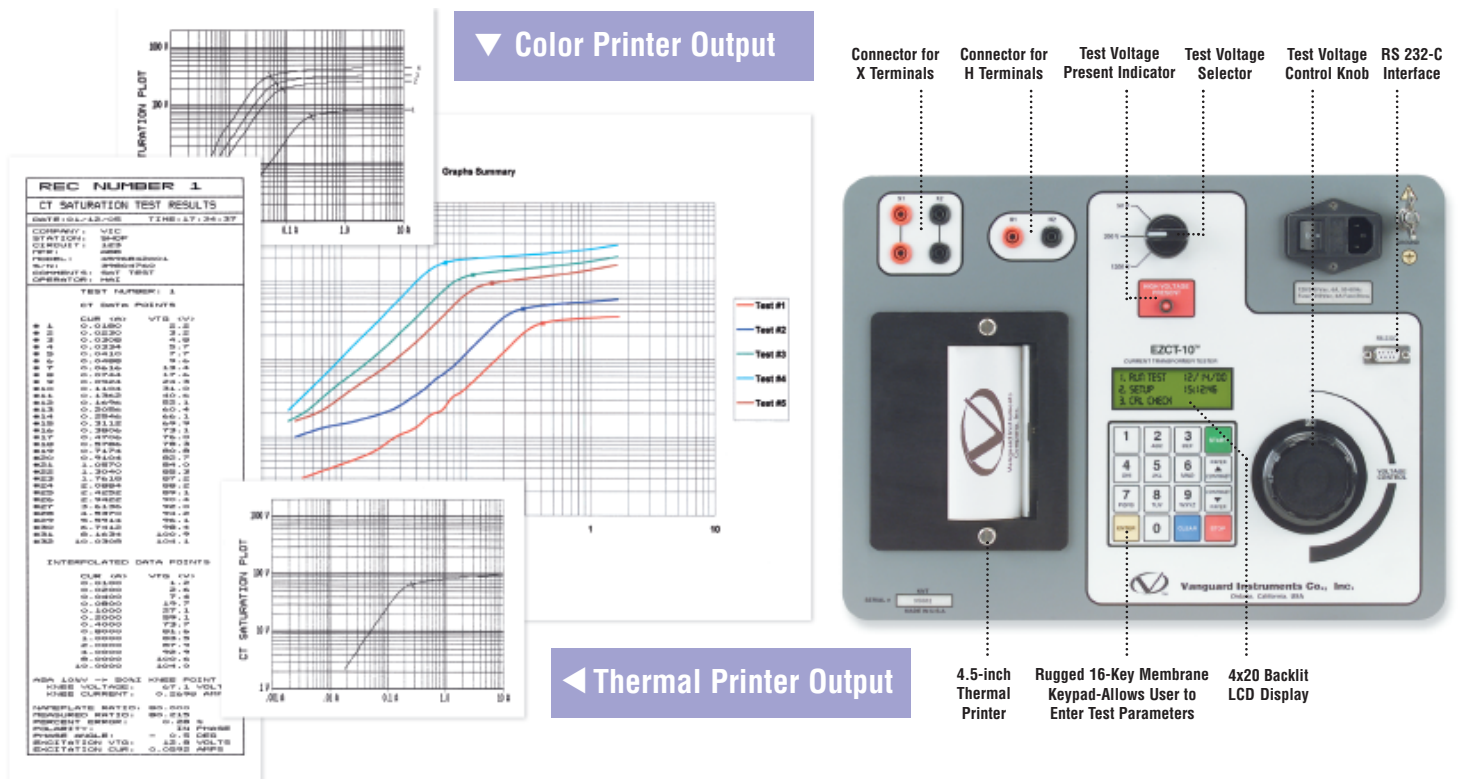
The EZCT-10™ can be used as a stand-alone unit or computer control mode. In stand-alone mode, test records can be downloaded via the unit's RS-232-C port to a PC-compatible computer in Windows® Excel® format. CT Sat and Ratio tests can also run and be played back under computer control mode using the supplied Windows® 95/98/NT/2000/XP-based software application.



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SPECIFICATIONS

TYPE	Portable Current-Transformer Test Set
PHYSICAL SPECIFICATIONS	6.8"W by 12.6"H by 12"D (42.7 cm x 32 cm x 26.9 cm), Weight 55 lbs (25 Kg)
INPUT POWER	90-130 Vac or 200-240 Vac (selectable), 50/60 Hz
MEASUREMENT METHOD	ANSI/IEEE C57.12.90 and ANSI/IEEE C57.13.1
OUTPUT TEST VOLTAGE	0 to 50 Vac @ 10A max; 0 to 200 Vac @ 10A max; 0 to 1200 Vac @ 1.5A max (5 min on, 10 min off)
VOLTAGE READING RANGE	0 to 1,250 Vac, (Accuracy: $\pm 1.0\%$ of reading, ± 0.5 volt)
CURRENT READING RANGE	0 to 10A, (Accuracy: $\pm 1.0\%$ of reading, $\pm 0.02A$)
TURN-RATIO RANGE	0.8 - 99: $\pm 0.5\%$, 100 - 999: $\pm 1.0\%$, 1,000 - 5,000: $\pm 2\%$
PHASE ANGLE MEASUREMENT	0 to 360 degree, Accuracy: ± 1.0 degree
DISPLAY	LCD Screen: 20 characters by 4 lines; viewable in bright sunlight
PRINTER	4.5-inch thermal printer
COMPUTER INTERFACE	RS-232C, 19,200 Baud
PC SOFTWARE	Windows 95/98/XP-based, included with purchase price
TEST RECORD STORAGE	Store 128 test records. Each test record may contain up to 10 saturation and ratio data
TEST HEADER STORAGE	Store 10 test header records
SAFETY	Designed to meet UL 61010A-1 Certification and CAN/CSA C22.2 No. 1010.1-92
ENVIRONMENT	Operating: -10° to 50° C (15° F to $+122^{\circ}$ F); Storage: -30° C to 70° C (-22° F to $+158^{\circ}$ F)
CABLES	One 20-ft X cable set, One 35-ft H cable set, Power cord, One cable carrying duffel bag
OPTIONS	Transportation case
WARRANTY	One-Year parts & labor

Note: The above specifications are valid at nominal voltage and ambient temperature of $+25^{\circ}$ C ($+77^{\circ}$ F). Specifications are subject to change without notice.

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