

Current Transformer Tester

Model CTT-5



Testing Applications

The CTT-5 will test the Current Transformer Ratio, Phase Shift, Polarity, Excitation, Saturation, Winding Resistance and Insulation Resistance using the voltage method in compliance with ANSI/IEEE C57.13.1 & IEC 60044-1 standards, where voltage is applied to the secondary X terminals of the current transformer. The CTT-5 burden test injects a current into the secondary loop to verify the integrity of the current circuit and to determine its impedance and VA. This information is required to insure the CT will perform under all circumstances. The CTT-5 can also test the Ratio, Polarity, Phase Shift, Winding Resistance and Insulation Resistance of voltage transformers.

Design Features

- High resolution color display allows operator to create and save repeatable test plans
- All tests are performed in automatic sequence without the need for operator intervention
- Rugged design to meet the most demanding field testing environments
- Large internal memory (200 testing files where each can have of up to 10 excitation curves and 140 test plans files)
- All CT nameplate and equipment details are stored with the test result file
- Built-in thermal printer
- Full QWERTY keyboard for easy on-site data entry
- 2000 VAC saturation test voltage with knee point voltage markers (ANSI 10/50, IEC 60044, IEEE 30 and IEEE 45)
- Fast full testing operation. Manual mode is available for trouble shooting and special diagnostic testing.
- Burden mode makes it possible to analyze the secondary circuit connected to the CT
- Easy setup of test plans are created on the instrument
- Convenient integrated test leads storage compartment
- Automatic test report creation
- User selectable time duration for insulation resistance test (10 to 60 seconds)
- Automatic demagnetization sequence

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- **Large internal memory**
- Full **QWERTY keypad** for easy data entry



The CTT-5 is a rugged and easy to use current transformer tester that offers automatic and manual testing modes. The instrument is designed to deliver fast and reliable measurements.



Specifications

Power input	115 ± 10% 60 Hz
Fuse rating	15 A or 8 A , 250 VAC, Type F
Voltage output	0-50 V / 0-200 V / 0-600 V @ 2 A 0-1200 V @ 1.5 A, 0-2000 V@ 1.2 A
Voltage reading	In three ranges, up to 1999.9 V ± 0.1%
Current reading	0 to 1.9999 A RMS ± 0.5%
Ratio and accuracy	0.80 to 1000:1 ± 0.5% 1000 to 2000:1 ± 0.5% 2000 to 5000:1 ± 1% 5000 to 10000:1 ± 1%
Measurement method	ANSI / IEEE C57.13.1, IEC-60044-1
Phase angle	±180°/ 0.0 to 359.9° ±1°
Winding resistance	0-1.9999 ohms ± 1%, 2-19.999 ohms ± 1%
Insulation resistance	2 M to 1 G-ohms ±3%
Current source	0-20 A @ 20 VAC Continuous
Current source display	19.999 A rms ±1% 19.999 Vrms ± 1%, 1 Mohm to 1000 ohms
Data storage	Up to 200 files with up to 10 excitation curves per file
Test plans	Up to 140 test plans
X Inputs	Multiplexer with five X inputs accommodates test on CT with up to 4 windings without disconnecting and connecting test leads during the test.
Display	4¾" x 3½" (120 mm x 90 mm) bright color LCD display
Printer	40 characters, 3.12" (80 mm) commercial thermal paper, paper support
Housing	Rugged, waterproof to IP-67 / NEMA 6 with wheels and retractable extension handle.
Operating temperature	-10°C to +50°C (+14°F to +122°F)
PC connection	USB, RS-232C, USB memory stick
Dimensions	18 1/2" (470 mm) L x 14" (356 mm) W x 7 1/2" (190 mm) H
Weight	55 lbs (24.94 kgs)
Memory Stick	100 MB+
Approvals	EN 61010:2001 EN 61326-1:1997 Class A

Standard Accessories

- X test leads, 20' (6 m)
- H test leads, 35' (10 m)
- Burden test leads, 18' (5 m)
- Ground lead, 15' (4.5 m)
- Main input power cord
- Serial communication cable
- USB communication cable
- Spare rolls of printer paper
- CD with report manager software
- User manual



Optional Equipment

- CTT-5 shipping case
- CTT-5 printer paper roll
- Custom made test clips
- Custom length test leads



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