

ndb Technologies inc.

111-1405. St-Jean-Baptiste Québec (Qc)

Canada G2E 5K2 Tél: (418) 877-7701 Fax: (418) 877-7787

E-mail: mkt@ndbtech.com Web: www.ndbtech.com



CTTx2 & CTTx5

Current Transformer Tester

The CTTx2 & CTTx5 are rugged and easy to use current transformer testers, that offer Automatic & Manual testing modes. These instruments are designed to deliver fast and reliable measurements.

Current transformer testing is an im- CTT's Highlights portant part of the commissioning and • High resolution color display allows maintenance of power systems. Protective relays can only operate adequately, under normal and fault conditions, if they receive the correct secondary current from the current transformers. Therefore accurate CT testing to evaluate their performance under all conditions is essential to assure reliable operation of the protection • system.

Applications

- CT Saturation/Excitation.
- CT Ratio, Polarity & Phase angle.
- CT Winding Resistance.
- CT Insulation resistance.
- CT Burden.



High voltage current Transformer

- operator to create and save repeatable test plans
- All tests are preformed 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 & 140 Test plans files)
- All CT nameplate and equipment details are stored with the test result file
- **Built-in thermal Printer**
- QWERTY keyboard for easy on site data entry
- 2000VAC Saturation test voltage with knee point voltage markers (ANSI 10/50 . IEC 60044, IEEE 30 & IEEE45)
- · 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 Sec)
- · Automatic demagnetization sequence!

Operation

The CTT 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 Burden test injects a current into the secondary loop to verify the integrity of the current circuit and to determine its impedance & VA. This information is required to insure the CT will perform under all circumstances.

Specifications

- Included PC Software for data transfer & analysis
- PC interface: RS-232C, & USB.
- Data storage in internal memory and USB Flash drive
- Waterproof housing/case wheels and retractable handle
- 20ft(6m) "X" & 35ft(10m) "H" cables.

Tap connectors 2 (X1-X2)

connectors (X1-X5)

Technical specifications

Power Input	115 / 230Vac ± 10% 50⁄60 Hz
Voltage Output	0-50V / 0-200V / 0-600V @ 2A 0-1200V @ 1.5A, 0-2000V@ 1.2A
Voltage Reading	In Three ranges up to 1999,9V ± 0.1%
Current Reading	0-1.9999A RMS ± 0.5%
Ratio and Accuracy	0.6-1000 :1 ± 0.5%; 1000-2000 :1 ± 0.5%; 2000- 5000 :1 ±1%; 5000-10000 :1 ±1%
Measurement Method	ANSI/IEEE C57.13.1, IEC-60044-1
Phase Angle	0.0 to 359.9 degrees ± 1 degree
Winding Resistance	0-1.9999 ohms ± 1%, 2-19.999 ohms ± 1%
Insulation Resistance	2M to 1G-ohms @ (500 VDC or 1000 VDC user selectable), ±3%
Current Source	0-20A @ 20Vac Cont.
Current source display	19.999Arms ±1% 19.999Vrms ± 1%, 1mohm to 1000 ohms
Data Storage	Up to 200 test files with up to 10 excitation curves per file
Test Plans	Up to 140 plans
Display	5.4" color LCD (daylight viewable)
Printer	40 characters, 3.12inch(80mm) commercial thermal paper, paper support
Housing	Rugged, waterproof when close with wheels and retractable extension handle.
Environmental	Operating -10 to 50 C
	Storage : -20 to 80 C
	Relative humidity: 0-95%, non-condensing
PC Connection	USB, RS-232C, USB Memory Stick
Dimensions	22.06" x 17.93" x 10.43" (56 x 45.5 x 26.5 cm)
Weight	55 lbs (24.9 Kg)
Memory Stick	100 MB+
Standard	CE compliance : EN61010, EN61326

Optional Equipment

CTT Shipping Case CTT Printer paper roll Specific custom-made test clips Specific custom length test leads