

Digital Turns Tester & Digital LCRTZ Meter

URNS-LCRTZ

VASAVI

Pioneer In Test Automation

Brief Introduction :

Specially designed for manufacturers and users of Toroidal coils, Current Transformers, Ferrite Transformers, Air core coils, Bobbins. This instrument can also be connected to PC through RS232C and can be controlled with a user friendly software for automatic testing, PASS/FAIL indication and for data capture. By using different platforms we can test Toroidal Coils, Bobbins and Ferrite Transformers.

Test Parameters :

Inductance, Capacitance, DC Resistance, AC Resistance, Turns, Polarity and Impedance. And, simultaneously it can also measure Tan Delta, Quality Factor, Dissipation Factor and E.S.R.

Attachments / Platform / Fixtures :

Toroidal Turns Test Platform (TTPT-100 / TTPT-1000) :

Specials designed to test Toroidal Coils, Current Transformers or ring core coils. Can test Turns, Polarity, L, C, Rac, Rdc, Z, Q.F. By using PC, all the parameter can be tested at one Go and for PASS / FAIL indication. There are two type of Toroidal Turns Test Platforms for with two different ranges.

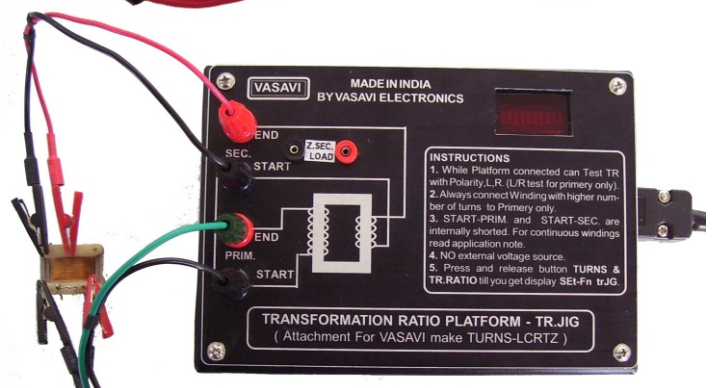
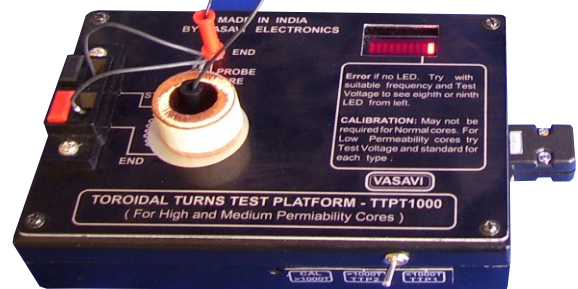
TTPT-100	: 5 T ~ 1000T
TTPT-1000	: 500 T ~ 10,000T
Accuracy	: $\pm 0.2\% \pm 0.5T$

Bobbin Turns Test Platform (BTPT-10000) : Specially designed to test Bobbin Coils, Air Core Coils, Solenoid Coils. Can test Turns, Polarity, L, C, Rac, Rdc, Z, Q.F. By using PC, all the parameter can be tested at one Go and for PASS / FAIL indication. It has to be calibrated for every type of coil with a golden/master sample of that kind.

BTPT-10000	: 1 T ~ 10,000T
Accuracy	: $\pm 0.5\% \pm 0.5T$

Transformation Ratio Platform (TR-JIG) : Specially designed to test ferrite Transformers or small Laminated Transformers. Can test Turns Ratio, Polarity, Unbalance, L, C, Rac, Rdc, Z, Q.F. By using PC, all the parameter can be tested at one Go and for PASS / FAIL indication.

TR-JIG	: 0.001 ~ 1.000
Accuracy	: $\pm 0.2\% + 1 \text{ dgt @ } 1\text{KHz}$; $\pm 0.5\% + 1 \text{ dgt @ other frequency}$



RS232C Control / PC Control Software :

TURNS LCRTZ can be controlled through external PC with RS232C port. It is a user friendly software that works on windows OS. User can create a test data file with all the test parameter along with its tolerance and can be saved in the PC. As specified in the test data, the instrument will test all the parameter and display the results along with PASS/FAIL indications in one go. These test results can also be saved into a database file for feature reference and can be viewed any time. This database file is compatible to Fox-Pro table and Microsoft Excel. A password protection is given for creating and editing test data file, from unauthorized users. And for regular testing, the user has to load the test data file and start testing. The instrument not only tests and displays the results but also analyses the test results against set limits on each parameter. Each test can be defined with different test parameter and different test conditions like test frequency.

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Specification :

Measurement Step Frequency	50Hz, 100Hz, 500Hz, 1KHz, 5KHz and 10KHz	
Measurement Step Voltage	0.1V ~ 1.0V RMS (Step of 50mV)	
Measurement Mode	Series / Parallel	
Display	0.5" LED Two displays. One for Value (4-Digit) with Units (2-Digits) and Other (4-Digit) for Q.F/D.F/ESR/TanD.	
Range	Auto / Range Hold Facility	
Inductance (L) Range	0.1uH ~ 200H	
Inductance (L) Accuracy	$\pm 0.2\% \pm 1$ dgt @ 1KHz ; $\pm 0.5\% \pm 1$ dgt @ Other Frequency	
Capacitance (C) Range	0.1pF ~ 2000uF	
Capacitance (C) Accuracy	$\pm 0.2\% \pm 1$ dgt @ 1KHz ; $\pm 0.5\% \pm 1$ dgt @ Other Frequency	
AC Resistance (Rac) & Impedance (Z) Range	0.01 Ohm ~ 200KOhm	
AC Resistance (Rac) & Impedance (Z) Accuracy	$\pm 0.2\% \pm 1$ dgt @ 1KHz ; $\pm 0.5\% \pm 1$ dgt @ Other Frequency	
DC Resistance (Rdc) Range	0.01 Ohm ~ 20K Ohm	
DC Resistance (Rdc) Accuracy	$\pm 0.5\% \pm 1$ dgt	
Tan Delta Range	0.0001 ~ 9.999	
Tan Delta Accuracy	$\pm 0.0002 \pm 1\%$ @ 1KHz ; $\pm 0.001 \pm 2\%$ @ Other Frequency	
Quality Factor Range (Q.F)	0.001 ~ 999	
Quality Factor Accuracy (Q.F)	$\pm 2\% \pm 0.1Q$ @ 1KHz ; $\pm 5\% \pm 0.5Q$ @ Other Frequency	
TTPT-100 / TTPT-1000 Toroidal Turns Platform	Range	TTPT-100 : 5 T ~ 1000 T TTPT-1000 : 500T ~ 10,000T
	Accuracy	$\pm 0.2\% \pm 0.5T$
	Toroid Dimensions	I.D > 0.5mm ; O.D < 200mm ;
BTPT-10000 Bobbin Turns Platform	Range	1 T ~ 10,000T
	Accuracy	$\pm 0.5\% \pm 0.5T$
	Coil Dimensions	I.D > 11mm ; O.D < 60mm ; H < 80mm
TR – Jig Turns Ratio Platform	Range	0.001~9.99
	Accuracy	$\pm 0.2 \pm 1$ @ 1KHz ; $\pm 0.5 \pm 1$ @ Other Frequency
Power Rating	110V AC ~ 240V AC ; 45Hz ~ 65Hz	

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