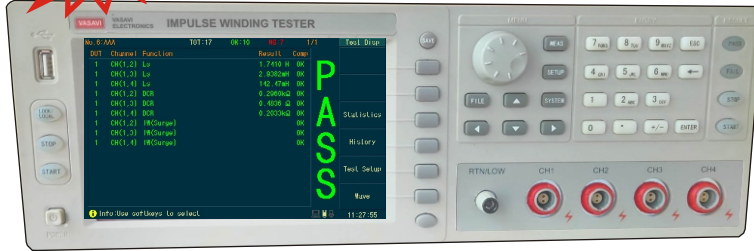


Impulse Winding Tester (VE2882A4-5RLU)

(Impulse Winding Tester, Inductances & DC Resistance Meter)

VASAVI

Pioneer In Test Automation



4 - Channel Impulse Winding Tester
(with L & Rdc Meter)



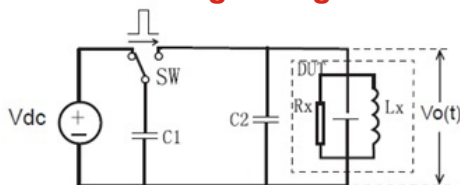
Brief Introduction :

Because of the influence of coil wire material, magnetic material, framework and process craft etc., coil can generate debasement of the insulation performance of the coil layer. Impulse winding tester adopts high-speed sampling performance. It is a new analysis test instrument for insulation performance and measures **Inductance (L) & DC Resistance (Rdc)** of a Coil or Winding. While testing, it compares the waveform with the sample wave form according to criterion of settings (Area, Differential Area, Corona Discharge, Differential Phase etc.) that is stored in the instrument. It is has user user-friendly options and high testing speed.

Theory of Impulse Tester :

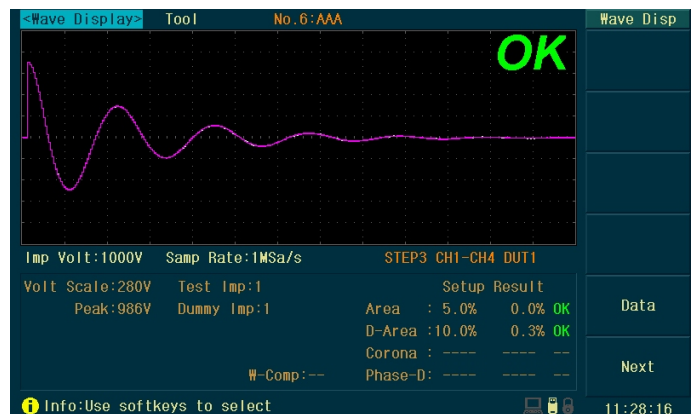
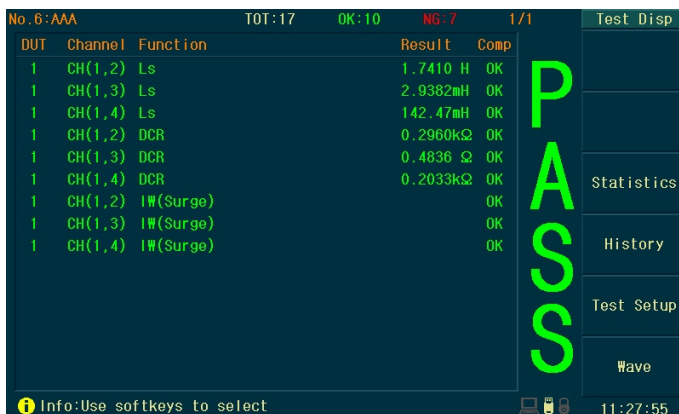
The impulse winding tester tests the electrical characteristics of coil winding without damaging the DUT. The prerequisite conditions for quality of a coil can be detected at just a glance. The detection is carried out when the same electric impulse by capacitor discharge is applied to the standard and the DUT. The voltage decay waveform is generated in response to the impulse, related to the Q-factor and inductance of the coil. In this sense, the tester can detect turn & layer short, the differences in the number of turns and the material of the core. If high impulse voltage is applied, the poor insulation will appear as a corona or layer discharge.

Decay Curve of winding Voltage :



Main Functions :

- Low inductance impulse test: down to 10μH
- Low energy test without damaging the coil
- Fast detection of winding insulation at a speed of 15 meas/sec
- 4 kinds of waveform comparison methods
- Up to 100 MSPS sampling rate
- Inductance Measurements (L)
- DC Resistance Measurements (Rdc)
- 65K Color 7" TFT Display
- Friendly user's interface and easy operation
- Direct display of comparison result
- Keyboard lock and password protection function
- Optional Handler Interface, RS-232C
- Waveforms can be stored in USB disk (optional)
- Multi-channel scan control interface: SCANNER (optional)
- Max. Test Voltage Range is 500V ~ 5KV



VASAVI ELECTRONICS

95, Road No.6A, Jyothi Colony, SECUNDERABAD - 500 015, (T.S), INDIA

Tel : +91 - 40 - 27744445 ; Web : www.vasavi.co.in / www.vasavi.com ; E-mail : vasavielectronics@gmail.com

Impulse Winding Tester

(Impulse, Inductances & DC Resistance Winding Tester)

VASAVI

Pioneer In Test Automation

Specification :

Model	VE2882A4-5RLU	
Channels	4	
Impulse Voltage	100V ~ 5000V, 10V Step Accuracy : $\pm 5\% \pm 10V$	
Inductance Range	20uH	
Impulse Energy	0.25 Joule	
Measurement Speed	Single Channel : 15 Mes/Sec Multi Channel : 12 Mes/Sec (Single Winding Test) 2 Mes/Sec (Four Winding Test)	
Pulse Applied	Measuring Pulse up to 32, Demagnetization pulse up to 8	
Input Impedance	10M Ohm	
Inductance	Signal Frequency	100Hz , 1KHz, 10KHz
	Range	0.1 μ H ~ 99.999 H
	Accuracy	$\pm 0.3\%$
DC Resistance	Range	0.1 mOhm ~ 20 KOhm (Kelvin Measurement)
	Accuracy	0.1 mOhm ~ 200 mOhm ($\pm 0.5\% \pm 0.5mOhm$) ; 200 mOhm ~ 20 KOhm ($\pm 0.2\%$)
Display Type	800x480 dots, 65K Color TFT Waveform display 650x256 dots	
Comparison Methods	Comparisons with standard waveform Area Size Differential Area Corona Discharge Differential Phase	
Impulse Accuracy of repetition	$\pm 1\%$	
Waveform Measurement	Voltage, Frequency, Time	
Trigger Mode	Manual / External / Internal	
Detection Output	OK / NG Display, LED Indications, Sound Alarm	
Measurement Status	Statistics of measurement results and time, Max.20000	
Memory	Internal	100
	USB Disk	300 groups (standard waveform and measurement settings)
Optional Interface	Handler (Start, Stop, Pass, Fail, Busy, EOC) RS232 USB Host (Supports FAT16 and FAT32, BMP, GIF, PNG, CSV Files)	
Power		
Power Supply	220V $\pm 10\%$; 50Hz $\pm 5\%$	

VASAVI ELECTRONICS

95, Road No.6A, Jyothi Colony, SECUNDERABAD - 500 015, (T.S), INDIA

Tel : +91 - 40 - 27744445 ; Web : www.vasavi.co.in / www.vasavi.com ; E-mail : vasavielectronics@gmail.com