Impulse Winding Tester

VE2882A-3U / VE2882A2-3U / VE2882A4-3U
VE2882A-5U / VE2882A2-5U / VE2882A4-5U

VASAVI
Pioneer In Test Automation

NEW

Single Channel Impulse Winding Tester

Multi Channel Impulse Winding Tester

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 technique. It is a new analysis test instrument for insulation performance of coils. 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.

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
- 65K Color 7” TFT Display
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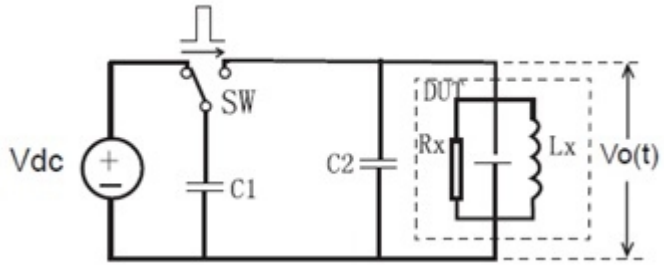
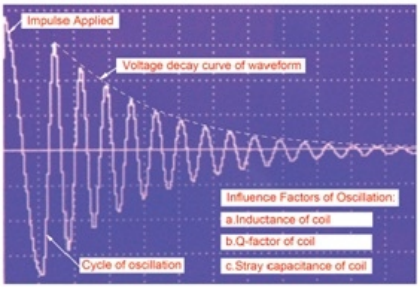
- Friendly user's interface and easy operation
- Multi-trigger mode programmable
- Voltage, Time and Frequency measuring function
- Direct display of comparison result
- Keyboard lock and password protection function
- Optional Handler, RS-232C, and USB
- Waveforms can be stored in USB disk (optional)
- Multi-channel scan control interface: SCANNER (optional)
- Max. Test Voltage Range is 500V ~ 5KV

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 Carve of winding Voltage :





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Specification :

Model		VE2882A-3U	VE2882A2-3U	VE2882A4-3U	VE2882A-5U	VE2882A2-5U	VE2882A4-5U
Channels		1	2	4	1	2	4
Impulse Voltage		100V ~ 3000V, 10V Step Accuracy : ± 5% ± 10V			100V ~ 5000V, 10V Step Accuracy : ± 5% ± 10V		
Inductance Range		>10uH	>20uH		>10uH	20uH	
Impulse Energy		0.09 Joule			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					
Display Type		800x480 dots, 65K Color TFT Waveform display 650x256 dots					
Waveform Acquisition		Sampling Rate : Max. 100 Msps, 10 grades (adjustable) Resolution : 8 Bits Memory Depth : 6500 Bytes Average : 1-32					
Comparison Methods		Comparisons with standard waveform Area Size Differential Area Corona Discharge Differential Phase					
Accuracy of repetition		± 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	300	150	120	300	150	120
	USB Disk	600 gruous (standard waveform and measurement settings)					
Optional Interface		Handler (Start, Stop, Pass, Fail, Busy, EOC) RS232 USB Device (Support USB TMC and USB CDC) USB Host (Supports FAT16 and FAT32, BMP, GIF, PNG, CSV Files)					
Power							
Power Supply		220V ± 10% ; 50Hz ± 5%					

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