



GREWIN INDUSTRIAL GROUP CO.,LTD.

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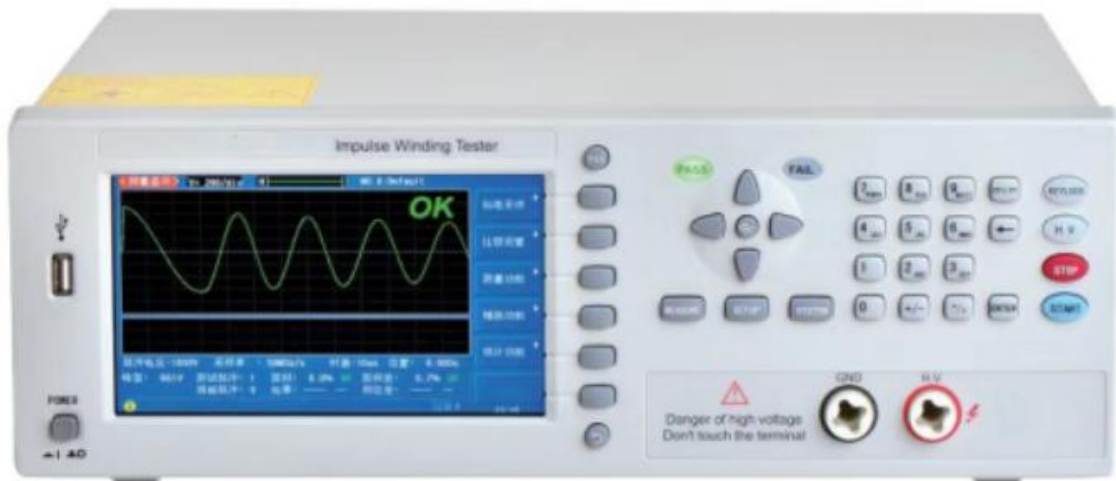


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GW-IT15 Impulse Winding Tester



GREWIN INDUSTRIAL GROUP CO.,LTD.

Add: The fourth floor A-A3 zone aviation business area,Dongli Distr,Tianjin,China.



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I. Specification: Main technical parameters:

Model	GW-IT15-5KV	GW-IT15-3KV	GW-IT15-10KV
Output pulse voltage	100V~5000V 10V step 5%±10V	100V-300V10V step 5%±10V	300V ~ 10000y step 5%±10V
Inductance test range	>10μH		
Maximum pulse energy	0.25J		
Display	800×480 dot matrix graphic LCD		
Waveform display area	650×250 dot matrix		
Display content	Enlarged display, setup parameters, standard and test waveforms, comparison results, file information, etc.		
Waveform sampling	Sampling rate: 100MSa/s~100kSa/s, total 10 steps Resolution: 8bits Sampling point: 6500bytes		
Standard waveform sampling	Continuous cycle, single cycle, single sample (up to 32 times sample average function)		
Input impedance	10MQ		
Measurement speed	Maximum 15 times/sec		
Number of pulses	Test pulse	1~32 times programmable	
	Degaussing pulse	0~16 times programmable	
Display waveform measurement	Voltage, Time, Frequency		
Trigger mode	Internal Internal/Manual Man μ AI (with foot control Foot)/External/Bus		
Comparison Methods	Area Size Comparison , DiffZone Comparison Corona Comparison,PhaseDiff Comparison		
Area Repeatability	±1%		
Area Difference Repeatability	±1%		
Judgment output	PASS, FAIL display, LED display, buzzer alarm		
Alarm volume selection	Long Treble, Long Bass, Single Short Tone, Double Short Tone, Off		
Memory	Internal: 200 groups of files External USB		
Interface	HANDLER(START,STOP,PASS,NG,BUSY,EOC.),RS232C IEEE488(Optional),USB DEVICE,USBHOST		
Volume and weight	400mmx132mmx300mm, weight 8.0Kg.		

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II. Brief description

GW-IT15 series pulse coil tester is specially designed for the testing needs of wire-wound components, the use of a high-voltage charging of a small capacitor (low test energy) and the coil to be tested to form a parallel resonance of the RLC, by the attenuation of the oscillating waveforms, through as high as 100MSPS (can be customized to 200MSPS) and the precision of the sampling processing and analytical techniques, can be tested to the coil from the body of the insulation is bad (turn-to-turn short-circuiting, short circuit between layers, insulation performance degradation, etc.), so that component manufacturers and users can more effectively for product quality control. Short circuit between turns, short circuit between layers, insulation performance degradation, etc.), so that component manufacturers and users can be more effective for product quality control.

GW-IT15 series instrument measurement speed, test waveform repeatability, can be widely used in motors, frequency transformers, relays, switching power supply transformers, demagnetization coils, etc. by the enameled wire wound components; GW-IT15 series can be applied to automated test system to greatly improve the test efficiency.

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III.Ordering Information

- GW-IT15-3KV Pulse voltage output: 100-3000V
- GW-IT15-5KV Pulse voltage output: 100-5000V
- GW-IT15-10KV Pulse voltage output: 100-10000V
- GW-IT15S-22 Channel Test, Pulse Voltage Output: 100-5000V
- GW-IT15S-44 Channel Test, Pulse Voltage Output: 100-5000V
- GW-IT15S-88 Channel test, pulse voltage output: 100-5000V
- GW-IT15S-XX10 channels-100 channels, pulse voltage output: 100-10000V, can be customized according to customer's requirements.

IV.Advanced Pulse Test Principle

The so-called “pulse testing of wire-wound components” is a non-destructive, high-speed, low-energy voltage pulses applied to the test piece to analyze and compare the waveforms of the good and defective test waveforms for the purpose of judging the GW-IT15 series of large screen, ultra-high sampling rate, high-performance processing technology, so that the customer intuitively distinguish the difference between defective and good products. The GW-IT15 series has a large screen, high sampling rate and high performance processing technology.

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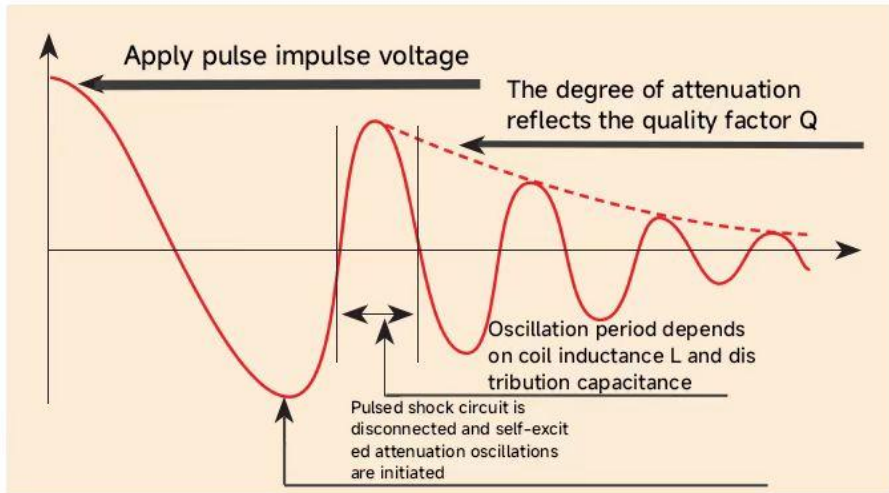
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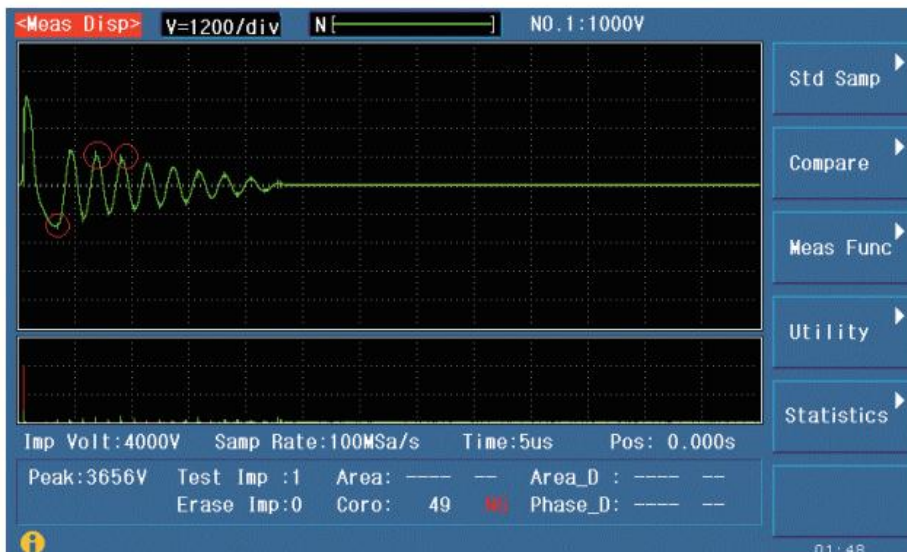


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V.Powerful corona test function

Can be customized up to 200Mps high-speed sampling rate, accurate extraction of corona information, and is equipped with corona display function, corona display at a glance, the performance of the product to do to prevent problems before they occur, greatly improving product quality.



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VI.Unique destructive testing capabilities

Destructive test is a test mode that starts from the starting voltage, takes the step voltage as the voltage step, ends with the termination voltage and combines with the comparator for comparison, which is used to judge the limit voltage withstand value of the tested parts, which can help customers to know the voltage withstand value of their own products and serve as the reference for setting the test voltage.

VII.Expanded dual-channel, quad-channel testing capabilities

GW-IT15S-2 dual-channel, GW-IT15S-4 four-channel can meet the customer on the Y-type winding (three-phase four-wire), three-phase three-wire winding test needs, motor winding test once, to avoid multiple switching test troubles, testing fast, efficient and cost-effective, widely praised by customers.

It can also be equipped with an external multi-channel scanner box, such as a typical 8-channel scanner box.

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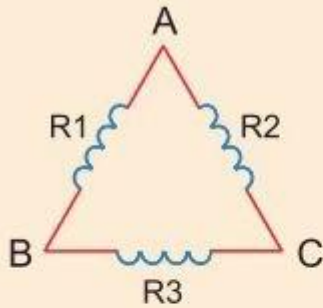
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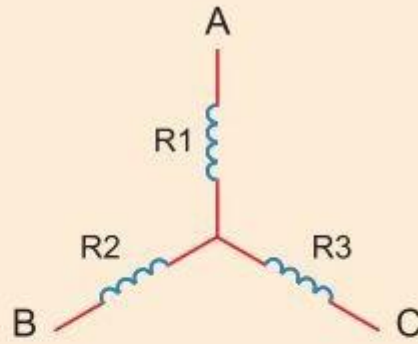
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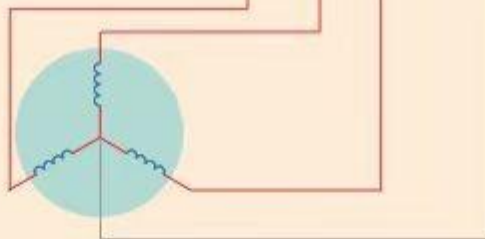
Three-phase three-wire motor windings



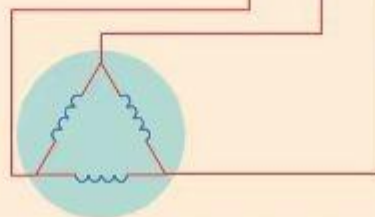
Y-type motor winding



Three-phase four-wire connection



Three-phase three-wire connection



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VIII.FEATURES:

- 65k color 7-inch TFT 800*480 HD display, Chinese and English optional operation interface
- 100Msps waveform sampling rate, 6500bytes memory depth (200Msps can be customized).
- High-speed testing, up to 15 times/sec.
- Four waveform comparison judgment methods: area, area difference, corona and phase difference
- Excellent voltage stability, test repeatability, to ensure the stability of the test
- Powerful corona analysis and extraction function, digging out the potential insulation problems of the product.
- Automatic saving of instrument parameters and power-on file loading function.
- Waveform vertical zoom, horizontal zoom and move function, easy to observe details
- Sample averaging function, up to 32 times of standard waveform averaging processing
- Automatic standard acquisition mode, automatically select the appropriate sampling rate
- Destructive testing for you to select the appropriate test voltage
- Demagnetization pulse application to ensure consistent test waveforms

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Firmware version update via USB HOST.

- Foot-control interface for quick and easy measurements.

Extensive interfaces for Handler, RS232C, USB Device, USB Host, and GPIB (optional).Provides up to 4 channels of testing, can test any three-phase motor delta and star connection, single-phase motor main and vice winding, main and vice winding, main and vice + main and vice winding, to meet the full range of motor turn-to-turn testing, can also provide 4 windings, and can also provide 4 winding testing.It can also provide scanning test function of 4 windings and winding comparison test function.

IX.Main annexes



ZX8815Y01R

Test line



ZX8815Y01B

Test line



ZX28Y08B

**Small Inductance
Test Fixture**

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