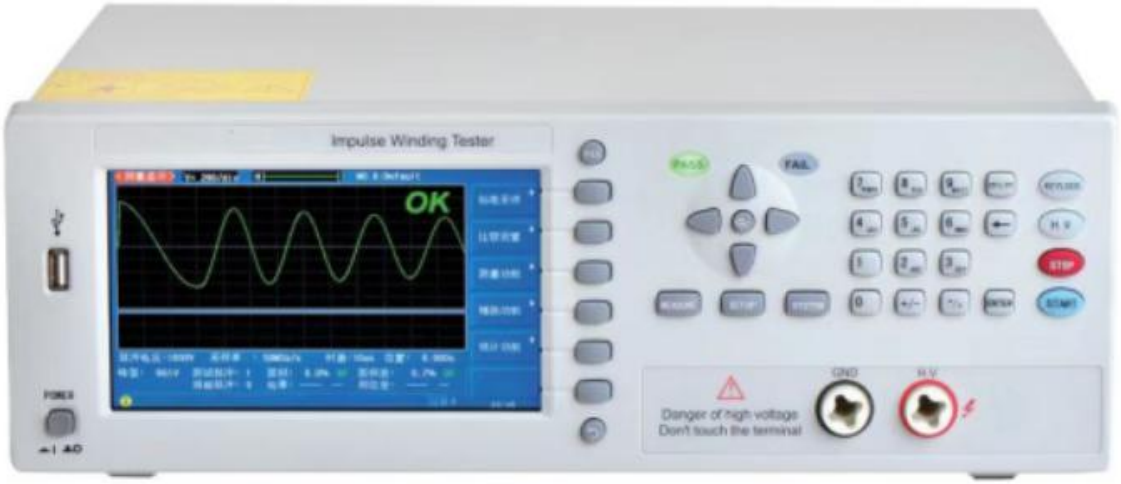
KIOXIA LIGHT RING EQUIPMENT GROUP CO.,LTD.
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KX-IT15 Impulse Winding Tester



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I. Specification：Main technical parameters：

Model	KX-IT15-5KV	KX-IT15-3KV	KX-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 Waveform display area Display content	800×480 dot matrix graphic LCD 650×250 dot matrix 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(Option),USB DEVICE,USBHOST		
Volume and weight	400mmx132mmx300mm, weight 8.0Kg.		

II.Brief description

KX-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.

KX-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; KX-IT15 series can be applied to automated test system to greatly improve the test efficiency.

III.Ordering Information

●KX-IT15-3KV Pulse voltage output: 100-3000V

●KX-IT15-5KV Pulse voltage output: 100-5000V

●KX-IT15-10KV Pulse voltage output: 100-10000V

●KX-IT15S-22 Channel Test, Pulse Voltage Output: 100-5000V

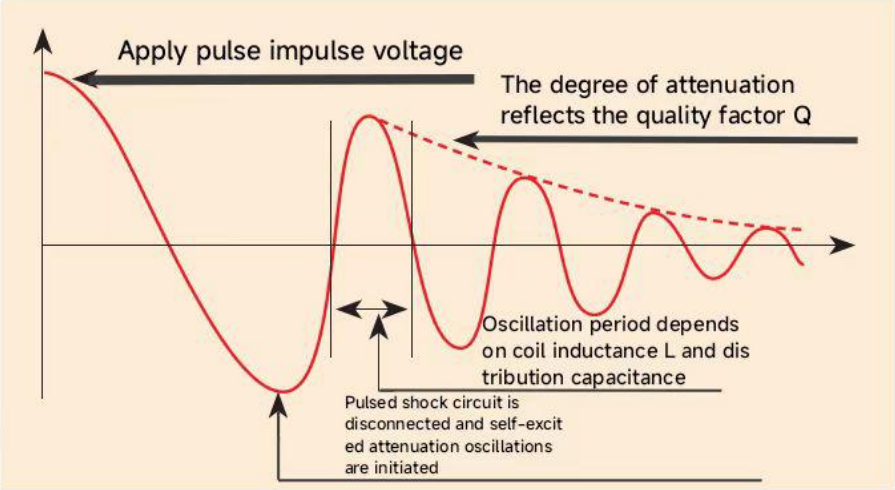
●KX-IT15S-44 Channel Test, Pulse Voltage Output: 100-5000V

●KX-IT15S-88 Channel test, pulse voltage output: 100-5000V

●KX-IT15S-XX10 channels-100 channels, pulse voltage output: 100-10000V, can be customized according to customer's requirements.

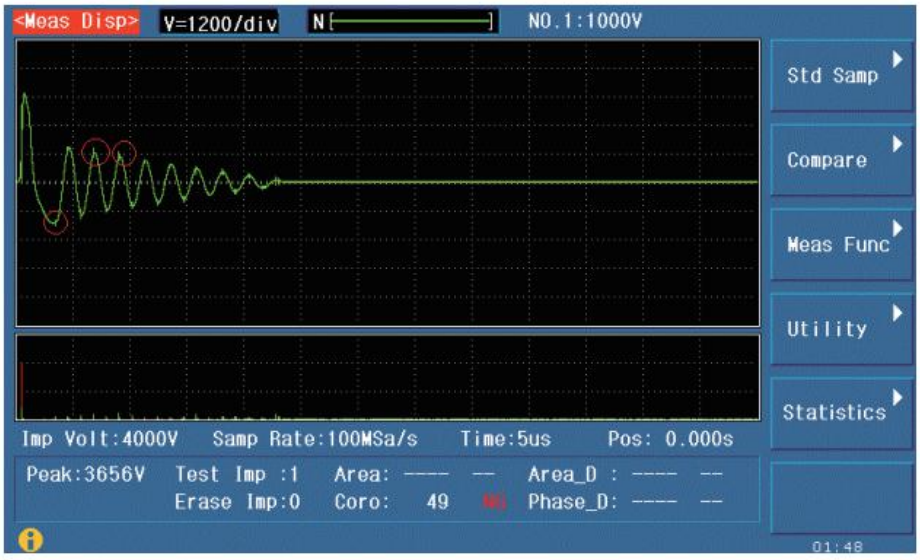
IV.Advanced Pulse Test Principle

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 KX-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 KX-IT15 series has a large screen, high sampling rate and high performance processing technology.



V.Powerful corona test function

Can be customized up to 200Msps 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.



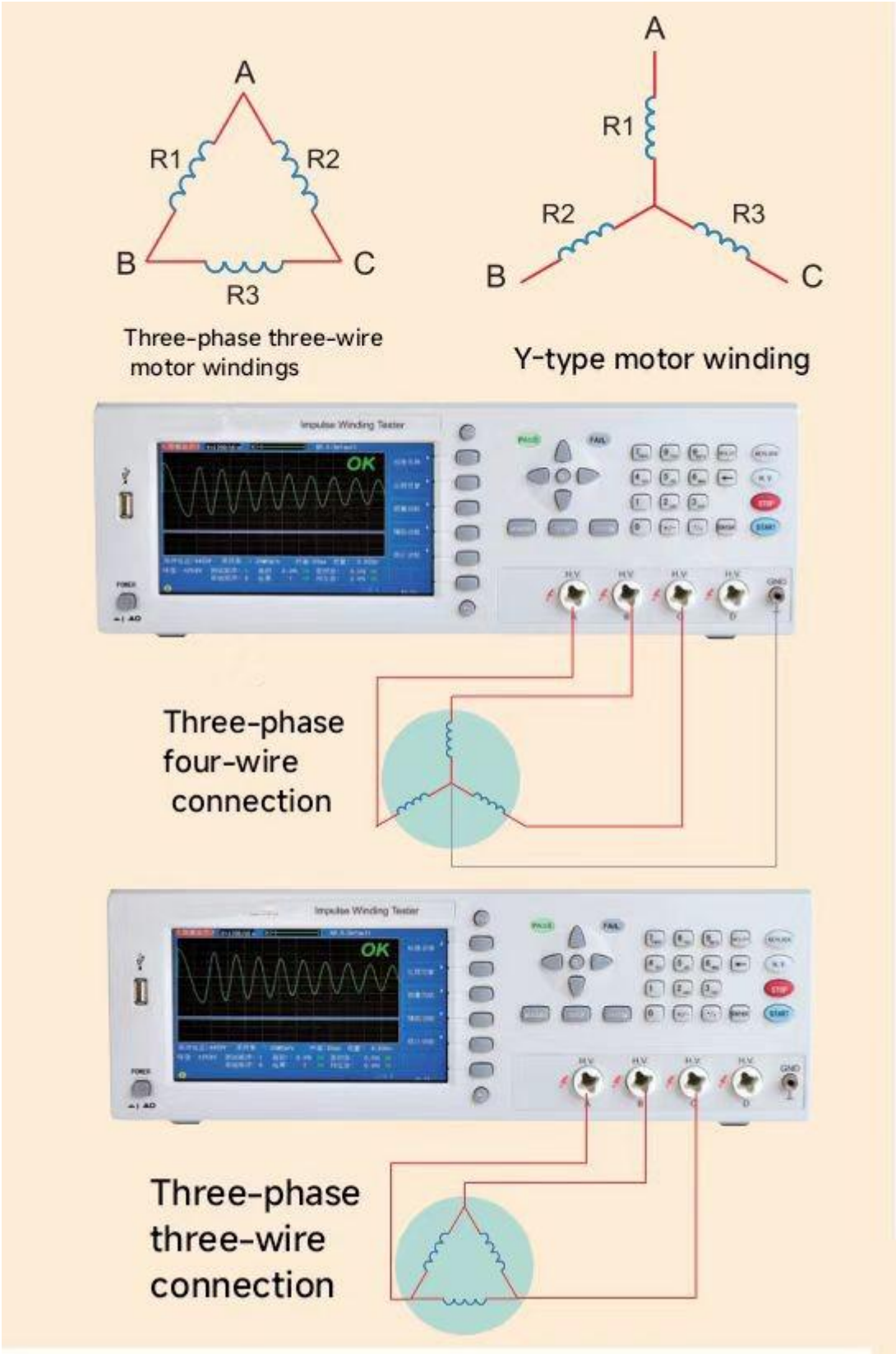
VI.Unique destructive testing capabilities

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

KX-IT15S-2 dual-channel, KX-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.


A
R1
R2
B
C
R3
Three-phase three-wire motor windings
A
R1
R2
R3
B
C
Y-type motor winding
Impulse Winding Tester
OK
Three-phase four-wire connection
Impulse Winding Tester
OK
Three-phase three-wire connection

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

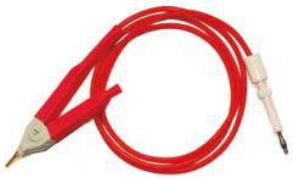
●Demagnetization pulse application to ensure consistent test waveforms

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

Packaging

Packaging Material: Carton/Wooden case with foam inside.

1. General package(Paper carton or plastic bag): For small equipped parts for Digital CNC Wire Coil Winding Machine, Package it with form and pack paper to guarantee unbroken during the transport.

2.Wooden case package: For larger scale Digital CNC Wire Coil Winding Machine ,we have special skilled carpenter, who would make the proper wooden case with exact thickness, density,length. The up arrow ↑marked on the outer wooden case. Buffer material would be put in the wooden case to prevent crack and shock.



FACTORY:

Founded in 1993, KIOXIA LIGHT RING EQUIPMENT GROUP CO.,LTD. has established itself as a well-known manufacturer specializing in

high-performance winding machines, along with associated production equipment, testing technologies, and technical expertise. A key offering in its comprehensive product range is the KX-IT15 Impulse Winding Tester—a precision testing instrument designed to evaluate the quality and performance of wound components, complementing the company’s winding machine solutions with critical quality assurance capabilities.

Beyond delivering specialized equipment like the KX-IT15 Impulse Winding Tester and a full line of winding machines, KIOXIA LIGHT RING provides highly cost-effective comprehensive manufacturing solutions. These solutions cater to the production and testing needs of various wound components, including transformers, chokes, and more, ensuring reliable support for efficient, high-quality processing across the entire lifecycle of winding component
manufacturing.

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