

## **KX1600 Protection Relay Test Set**



### **I. Introduction**

The main control board is DSP + FPGA architecture, 16 bit DAC output, generates high - density sine wave 2000 points each circle to fundamental wave, which greatly improve the wave quality and the accuracy of the test instrument.

Classic Windows XP operating interface, friendly man-machine interface, easy and fast to operate; High-performance embedded industrial control computer and 8.4 inch resolution of 800 × 600 TFT true color display which provides rich visual information, includes the current working condition and all kinds of help information.

The software with self-calibrating function, which avoid to calibrate accuracy by adjusting relays after open the case, greatly improve the stability of the accuracy.

### **II.Features**

1.Meets all the requirement of field tests. This tester with standard 6 phase voltage, 6 phase current output, voltage 125V/phase, current 30A/phase, 6 phases in parallel can up to 180A. Digital Signal Processor Microcomputer. Not only test the traditional relays and protectors, but also test the modern microcomputer relays, special for transformer differential protection and transfer equipment.

2.All technical indicators fully meet the standard DL/T624-1997: Technical condition of the relay computer test device.

3.Classic Windows XP operating interface, friendly man-machine interface, easy and fast to operate; High-performance embedded industrial control computer and 8.4 inch resolution of 800 × 600 TFT true color display which provides rich visual information, includes the current working condition and all kinds of help information.

4.The Windows XP system comes with the restore function; avoid system crashes caused due to illegal shutdown, or malfunction, etc.

5.Equipped with ultra-thin industrial keyboard and optical mouse, complete a variety of operations using keyboard or mouse the same as ordinary PC.

6.The main control board is DSP + FPGA architecture, 16 bit DAC output, generates high - density sine wave 2000 points each circle to fundamental wave, which greatly improve the wave quality and the accuracy of the test instrument.

7.Using high-fidelity linear amplifier. Both to ensure the accuracy of a low current, but also guarantee the stability of the high current.

8.USB directly connect with PC, without any adapter cable, easy to use.

9.Can be connected to a laptop computer (optional).Laptop computers and industrial machines use the same software, no need to re-learn the methods of operation.

10.With a separate DC auxiliary voltage source, output voltage 110V(1A), 220V(0.6A), provides relays or protective devices which require DC power.

11.The software with self-calibrating function, which avoid to calibrate accuracy by adjusting relays after open the case, greatly improve the stability of the accuracy.

### III. Parameters

#### AC current source

Amplitude range	6X(0~30A)/phase accuracy: 0.5%
6 phase in parallel max output	180A
Phase current values allowed to work a long time	10A
Power	300VA/phase
6 phase in parallel max output power	900VA
6 phase in parallel current max output allowable working time	10s
Frequency range	0~1000Hz ; accuracy: 0.001Hz
Overtone order	2~20; phase :0~360°; accuracy: 0.1°

#### DC current source

Amplitude range	20A/phase
Power	300VA/phase
Accuracy	0.5%

#### AC voltage source

Amplitude range	6x(0~125V)/phase, accuracy: 0.5%
Line voltage range	0~250V
Phase voltage / Line voltage output power	750VA/100VA
Frequency range	0~1000Hz accuracy: 0.001Hz
Overtone order	2~20; phase :0~360°; accuracy: 0.1°

#### DC voltage source

Phase voltage output range	0~±150V
Accuracy	0.5%
Line voltage output range	0~±300V
Phase voltage / Line voltage output power	90VA/180VA

#### Switch terminal

Switch input terminals	8 pairs
Dead contact	1-20mA, 24V active output inside the device.
Potential flip	0--6V DC low level; 15-250V DC high level
Switch output terminals	4 pairs, dead contact, rupturing capacity: 110V/2A, 220V/1A

#### Time measurement range

Range	1ms~9999s
Accuracy	1ms

#### Dimension & weight

Dimension	455x530x220mm
Weight	32Kg

#### Power

AC	220V±10%	50Hz, 10A
----	----------	-----------

#### IV. Accessories

