

# Fully Automatic Relay Protection Test Set, Model: NRTS-306

Quality / Accuracy / Reliability



The instrument is the newest generation of relay protection testing system. It meets all the requirement of field tests. The tester employs DSP and Windows XP system, easy and fast to operate.

## Characteristics:

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

- The Windows XP system comes with the restore function; avoid system crashes caused due to illegal shutdown, or malfunction, etc.
- Single unit is equipped with ultra-thin industrial keyboard and optical mouse, complete a variety of operations using keyboard or mouse the same as ordinary PC.
- Using high-fidelity linear amplifier. Both to ensure the accuracy of a low current, but also guarantee the stability of the high current.
- 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.
- USB directly connect with PC, without any adapter cable, easy to use.



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**Description:** 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 micro computer relays, special for transformer differential protection and transfer equipments. All technical indicators fully meet the standard DL/T624-1997: Technical condition of the relay computer test device.

## Technical Specifications

### ● AC current source

Current range: 6x (0~30A)/phase, accuracy 0.5%.

6 phase parallel current output: 180A

Phase current working value for allowed long time: 10A

Power: 300VA/phase

Maximum output power of 6 phases in parallel: 900VA

Maximum permitted work time of 6 phases in parallel: 10S

Frequency range: 0~1000Hz; accuracy: 0.001Hz

Harmonic time: 2~20; phase: 0--360°; accuracy: 0.1°

### ● DC current source

Current range: 20A / phase, power: 300VA/phase, accuracy: 0.5%

### ● 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

● Power: AC220V±10% 50Hz 10A

### ● AC voltage source

Phase voltage output: 6x( 0~125V)/phase, accuracy: 0.5%

Line voltage output: 0~250V

Phase voltage / Line voltage output power: 70VA / 100VA

Frequency range: 0~1000Hz accuracy: 0.001Hz

Harmonic time: 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

### ● Time measurement range

Range: 1ms-9999s; accuracy: 1ms

### ● Dimension & weight

Dimension: 455 (mm)×530 (mm)×220 (mm)

Weight: 30Kg.

## Accessories Supplied:

● High strength aluminum alloy host package case

● Power cord

● USB connection cable

● 2 A fuse

● Test line package

● Current test line

● Voltage and switch test line

● 10 A fuse

● Program CD

Product Specifications are subject to change without notice

Manufactured By:

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