

TEST-630

Relay & Protection Microcomputer Test System

1. Six-channel current output
2. Six-channel voltage output
3. Eight pairs of binary input
4. Four pairs of binary output.

Features

1. Integration in the host crystal 8.4 inches true color, light weight and easy to carry.
2. Built-in high-speed and high-performance industrial computer embedded operating system, running stable and reliable, also can test by connecting PC.
3. Panel embedded user-friendly buttons, and the panel can also be an external keyboard and mouse.
4. High-precision DAC to 12 Road, simultaneously output to ensure the high precision and good linearity of the waveform.
5. Matching electromagnetic compatibility components, can improve on-site anti-electromagnetic interference, protection devices can connect the electromagnetic compatibility to test.
6. Analog output of the front panel, switch the amount of terminal design in the upper cover, all the wiring does not affect the operation of the panels and the test parameters of the surveillance.
7. The latest thermal structure design to ensure the best ventilation. Automatically determine over current, over voltage, overload and short circuit, if the temperature is too high, the anomalies and misuse warning of the data will show up promptly.
8. Using voltage, current amplifier AC / DC sharing, output stage uses a unique ultra-linear amplifier technology, high precision and reliability. six-phase AC output voltage and six-phase AC current.
9. 12 analog ports and other optional auxiliary DC source output (220V/110V).
10. Interface: RJ45 (Ethernet interface), USB interface (software upgrades, reporting transmission), industrial serial interface (GPS or other serial device use).



Functions

1. Host real-time operating system, fast response, when faced with an emergency situation, can better protect the instruments and equipment under test. Safe and reliable, not easy to be violated by a computer virus.
2. The newly designed software interface style, the host machine operation is fully consistent with the background and easy to use.
3. Extensive testing capabilities: the state sequence will be determined to meet the needs of various types of user for testing microprocessor-based protection relay in the trial, IT features analog oscillation, the entire group of tests, differential protection, harmonic superposition, low cycle load shedding, same equipment, measuring instruments, GPS synchronized debugging, fault playback, and custom test (special tests), etc. It can easily complete the protective device test of ABB, Siemens, AREVA and other foreign manufacturers.
4. The test report can be easily derived from the USB port to print.

Test item

I. U/I test	VIII. Harmonic test	XIV. Synchronization test
II. DC test	IX. Differential protection	XV. Special test
III. Impedance characteristics	X. Distance protection	XVI. Oscillation test
IV. Power direction test	XI. Zero sequence protection	XVII. Metering instrument
V. I-T test	XII. Setting group test	XVIII. Hardware checkout
VII. Differential relay	XIII. State sequence	XIX. Low Voltage protection

Parameters

Electrical parameters	
Allowable range	AC220V±10% or AC110V±10%, 50/60Hz±10%
Time measurement	0.1ms-999999.999s
AC current output	
Phase current output (effective value)	6×0-30A or 3 × 0-60A
Maximum output power	520VA/phase
Maximum parallel current output (effective value)	0-180A
Long-term allowable working value of phase current (effective value)	>10A
Allowable working time of maximum current	>11s
Accuracy	<±0.2%
AC voltage output	
Phase voltage output (effective value)	6×0-130V
Line voltage output (effective value)	0-260V
Maximum output power	70VA/phase
Accuracy	<±0.2%
DC voltage output	
Output range	0-300V or 6×0-±130V
Maximum output power	130VA
Accuracy	<±0.2%
DC current output	
Output range	-10-10A or 6×0-±10A
Maximum output power	150VA
Accuracy	<±0.2%
Binary input	
Idle contact	1-20mA, 24V (DC)
Electric potential contact	0-250V (DC)
Binary output	
Idle contact	250V/0.5A (DC)

Electrical parameters - continued
Rated output

Frequency error	<±0.01HzHz
Phase error	<±0. 2°
Waveform distortion	<±0.3% (fundamental wave)
Time error	<40μs
Output frequency	0-1050Hz
Superposed harmonic wave	0-21times

Time measurement

Test range	0.1ms-999999.999s
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Mechanical parameters

Dimensions (L×W×H) (mm)	360×195×365
Weight (kg)	16.6

Environmental conditions

Use range	0°C to 45°C
Storage range	-25°C to 70°C