



H.V. TEST

Specialists in High Voltage
Testing & Diagnostics

HV3P-630A Three Phase 6 Channel (30A WiFi), Optional GPS, Transcope, 61850

Projects

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The HV3P-630A relay protection tester is designed according to the technical specifications of "DL/T 624-2010 Technical Conditions for microcomputer relay protection test Device", and based on the IEC61850 communication protocol, using advanced computer technology to realize the relay protection test device. The unit is equipped with high-performance power amplifier and based on the powerful PowerPC + X86 platform, the product adopts modular design, with powerful, high precision, small size, light weight characteristics, can realize the function and performance of the relay protection device, measurement and control device test, suitable for power plants, substations, all kinds of scientific research units and equipment manufacturing enterprises



Manual test: The HV3P-630A Relay Protection Tester provides a variety of general test modules, protection test modules and special test modules, providing perfect test solutions for various types of secondary equipment in substation, including relay protection devices and other safety automatic devices. At the same time, it adopts the engineering configuration interface and configuration process similar to the intelligent substation SCL configuration tool, which conforms to the testing habits of the operators, and provides various types of graphics and forms for displaying the test progress and test results.

Automatic test

The HV3P-630A Relay Protection Tester adopts template-based management scheme to manage automatic test solutions. A test template can contain multiple test items. Each test template is configured for a type of protection. After the template configuration is complete, the user does not need to perform other manual settings, and can complete the automatic test of all test items with one key click Start, and automatically give the test results. Because it is a test template configured for a certain protection device, the template can be used for automatic testing of other types of protection without reconfiguration

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TECHNICAL SPECIFICATIONS

- Power supply
Power dissipation <2000VA
Ac power supply 220V $\pm 20\%$ (47~63Hz)
Dc power supply 200~380 VDC
- AC voltage source output
Measuring range 6 x 125V, 125V/60VA per channel
Accuracy 0.2~2V, $\pm 2\text{mV}$; 2V~130V, $\pm 0.05\%$
Resolution 1mV
- AC voltage source output
Measuring range 6 x 30A, 30A/300VA per channel
Accuracy 0~500mA, $\pm 1\text{mA}$; 500mA~30A, $\pm 0.05\%$
Resolution 1mA
- Output phase
Range 0~360°
Accuracy $< \pm 0.001\text{Hz}$ (0~65Hz) $< \pm 0.02\text{Hz}$ (450~1200Hz)
Resolution 0.001Hz
- DC voltage source output
Range -175~+175V(L-N), 1*0~350V(L-L), Accuracy 0.1%
- DC voltage source output
Range 6 channels ,each 0~30A/250VA, Accuracy 0.1%
- Independent auxiliary DC
110/220V DC is switchable, power no less than 100W
Precision 0.5%
- Standards
EMC Directive 2014/30/EU EN 61326-1:2013
- Synchronous interface Number
GPS/BD ANT 1 piece; IRIG-B/PPS optical signal 2 pieces: 1 time synchronization and 1 time service; IRIG-B/PPS signal 2 pairs : 1 pair time synchronization and 1 pair time service; IEEE 1588 1 pair
- Interface type
GPS/BD ANT, IRIG-B/PPS optical signal;
IRIG-B/PPS electric signal; IEEE 1588
- Communication protocol
IEC61850
- Time measurement
Range 1ms~9999.999s, Accuracy 1ms
- Digital Input Number
8 pairs
- Digital Output Number
6 pairs, among them, 2 pairs are fast opening (reaction time $\leq 0.1\text{ms}$), which can be added
Interrupting capacity DC 250V /0.5A
- Wireless connections
Interface type WIFI, 4G
- Wired connection (Ethernet)
Number of ports 2
Interface type 100 megabit LAN port, RJ45
- Power supply voltage
AC/DC 220V, Tolerance error : $\pm 20\%$, 47~65 Hz
- Auxiliary power supply
110 / 220 V each channel
- Analog signal input (optional)
Number of channels 12
Interface type Aviation plug, AC voltage
- Analog signal output (optional)
Number of channels 12
Interface type Aviation plug, AC voltage
- USB
Interface Number 3
- Operating temperature
-10°C~50°C
- Humidity
 $\leq 95\%$, No condensation
- Others
On-line interface RJ45

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