

KINGSINE K5030i Protection Relay Test Set



K50 series relay tester with latest technology, extremely design for your now and future use, with power PC software, unique features and functions helps you stand ahead of your competitors!

1. Adopts 10.4 large LCD screen, and provided with VGA video interface, making it available to connect to projector for training;
2. Unique power switch and amplifier technology, so the output precision and power efficiency and factor are increased, which conforms to international tendency of energy save and environmental protection;
3. With alarm function of housing grounding testing and external voltage input, to guaranty personal security;
4. Offer independent Aux. DC to tested devices, 0 ~ 300V/0.6A(Poleless and adjustable);
5. Two in one of meter and source, with function of both internal and external testing, self-calibration, oscillograph, and the duration of each oscillograph reaches 50S (optional function);
6. Function of transducer and energy meter testing (optional function);
7. Adopt Smart and stable Window CE embedded system. Windows has the advantage of small application program with fast speed, which overcomes the problem of bad stability, easy-damage hardware, and virus of Windows 98/2000/XP;
8. Use high-speed CF card as the storage, more stable, anti-shock compared with ordinary hardware, so works more reliable.

Technical Data of K5030i

| Voltage generators | | |
|---------------------|-------------------|--|
| Setting Range | 4-phase AC (L-N) | 4 x 0 ... 300 V |
| | 2-phase AC (L-L) | 2 x 0 ... 600 V |
| Power | 4-phase AC (L-N) | 4 x 110VA, at 0 ... 300 V |
| | 2-phase AC (L-L) | 2 x 110VA, at 0 ... 600 V |
| Accuracy | | <0.07% reading + 0.03% range guaranteed at 0-300V <0.04% reading + 0.01% range typical at 0-300V |
| Resolution | | 1mV |
| Current generators | | |
| Setting Range | 3-phase AC (L-N) | 3 x 0 ... 30 A |
| | 1-phase AC (2L-N) | x 0 ... 60 A |
| | 1-phase AC (3L-N) | 1 x 0 ... 90 A |
| Power | 3-phase AC (L-N) | 3x 250VA , at ...30A |
| | 1-phase AC (2L-N) | 1x 840VA, at ...60A |
| | 1-phase AC (3L-N) | 1 x 1000 VA, at ...90A(Max) |
| Accuracy | | <0.07% reading + 0.03% range guaranteed at 0-30A <0.02% reading + 0.01% range typical at 0-30A |
| Resolution | | 1mA |
| Generators, general | | |
| Frequency | Range | 0 ... 1000 Hz |
| | Accuracy / drift | Error < 0.001Hz at 10 ... 65Hz, Error < 0.01Hz at 65Hz...450Hz Error < 0.02Hz at 450Hz...1000Hz |
| | Resolution | 0.001Hz |
| Phase | Range | - 360° ... +360° |
| | Accuracy / drift | < 0.2 ° |
| | Resolution | 0.1° |
| Timer | Range | Infinite |
| | Accuracy / drift | 1ms |
| DC generators | | |
| Voltage ranges | | 0 ... 300V/110W |
| Current ranges | | 0 ... 20A/200W |
| Accuracy | | <0.1% reading + 0.1% range guaranteed at 0....300V; <0.1% reading + 0.1% range guaranteed at 0....20V |
| Resolution | | 1mA; 1 mV |

| | |
|--------------------------|--------------------------------|
| Aux DC Supply | |
| Range | 0...300V/110W |
| Binary inputs | |
| Number | 4 pairs |
| Compatible Voltage | 0V ... 250V |
| Binary outputs | |
| Number | 4 Pairs |
| Capacity | 250V /3A (AC/DC) |
| Synchronization | |
| Synchronization mode | GPS |
| Harmonic | |
| Harmonic overlap times | 2 ... 20 times |
| Power supply | |
| Nominal input voltage | 85V...264V AC |
| Power | 2000VA |
| Nominal frequency | 47Hz....65Hz |
| Environmental conditions | |
| Operation temperature | -5°C ... 55 °C |
| Storage temperature | -20°C ... 75°C |
| Humidity range | 5% ... 95 %, non-condensing |
| Weight | 17.5KG |
| Dimensions | 480(D)×190 (W)×360 (H) mm |
| Interface | RJ 45, USB |
| Display | 10.4 inches TFT true color LCD |

Major functions:

| Items | IEEE(R) No. |
|---------------------------------|-------------|
| Synchronization relay | |
| Fault transplay | |
| GPS Synchronization | |
| Overcurrent relays | 50/76 |
| Inverse time overcurrent relays | 51 |
| Undercurrent relays | 37 |
| Ground fault relays | 50 |
| Directional overcurrent relays | 67 |

| | |
|---|-------|
| Directional ground fault relays | 67N |
| Overvoltage relays | 59 |
| Undervoltage relays | 27 |
| Directional voltage relays | 91 |
| Directional power relays | 32 |
| Power factor relays | 55 |
| Differential protection (differential circuits) | 87 |
| Distance protection equipment (phase by phase) | 21 |
| Negative sequence overcurrent relays | 46N |
| Motor overload protection | 51/86 |
| Automatic reclosing devices | 79 |
| Tripping relays | 94 |
| Voltage regulating relays | |
| Overimpedance relays, $Z >$ | |
| Underimpedance relays, Z | |
| Time-delay relays | |