

GDYB-S18 Three-phase Energy Meter Test System



Product Description

GDYB series Meter Test System is used to measure various kinds of single/three phase meters of 0.1% and below. It has good appearance, complete functions and excellent performance.

Features

- Compact design, the meter rack of the testing equipment and the desk frame are all made of special aluminum alloy and the desk face-plate is made of fireproof and heatproof fiber material.
- Easy to use, both keyboard and PC operation are available.

- Advanced automation. User only needs to put on meters, adjust the
 photoelectric sampler and set the parameters in good condition, then all the
 test items, including pre-heating, actuation and false actuation tests,
 standard deviation test, basic error test are all controlled by PC by one test.
 The procedure of meter calibration can be user-defined.
- Photoelectric sampler can realize three-dimensional adjustment. It can not only sample the turn-plate signal of the rotary meter but also receive the strobe signal of the electronic meter.
- The error processing system can receive signal from the photoelectric sampler and output pulse of the insert type electronic meter, and high frequency pulse signal of standard meter.
- Meters in same type(same phase line, rated voltage, calibrated current) but different constant (at most 3 kinds) can be test at same time.
- Test RS485 communication function of multi-functional meter, required error and clocking error (Time signal output is necessary).
- Locate the mark area of rotary meter automatically, which enables easier false actuation tests.
- Superimposing 2-21 harmonics in fundamental wave of power frequency, harmonic amplitude and phase can be set according the requirements. Also harmonic analysis and draw waveform can be performed for output components.
- Auto testing on every unit voltage, current, power stability and three phase total power stability.
- High stability and reliability, which can provide strong output power. Voltage (current) loop can take load of any type.
- The testing equipment is provided with complete malfunction checking, locating, protecting and alarming functions to avoid damaging of the bench resulted from wrong manual wiring or operating.

 PC software developed with Delphi for Windows 95 provides fast and effective equipment control and data checking, it also provides complete functions, such as report printing, quantity counting and assets maintaining

Specification

• Accuracy level: 0.1%

Output voltage: 3*100V/57.7V Y 3*100V ∆

3*380V/220V Y 3*380V Δ

Regulating range: 0-120% consecutively adjustable

Regulating accuracy: better than 0.01%

Special voltage range can be setup according to actual order.

Current range: 0.1A, 0.25A, 0.5A, 1A, 2.5A, 5A, 10A, 20A, 50A, 100A

Regulating range: 0-120% consecutively adjustable

Regulating accuracy: better than 0.01%

Output power: (voltage loop) GDYB-S18 800VA

(current loop) GDYB-S18 1500VA

Stability of output voltage, current and power:

≤0.05%/120S PF=1 (level O.1type)

• Wave distortion of output voltage and current: ≤0.5%

Symmetry of three phase: better than 120°+0.3°

• Frequency range: 45Hz-65Hz regulating accuracy: 0.1 Hz

- Phase shifting range: -180.0°-180.0° regulating accuracy: 0.1°
- Standard crystal oscillator stability: ≤10⁻⁷/s
- Indicating instruments class

Voltmeter and ammeter accuracy: level ±0.2%

Phase meter accuracy: ±0.5°

Frequency meter accuracy: ±0.1Hz

• Maximum meters for test: 18

• Power supply: 3*220V±10%, 50Hz

• Maximum power consumption: 4000VA

• Working temperature: 20±5°C relative humidity: ≤85%

• Dimensions and weight: 2500mm*720 mm*1900mm 350Kg