

# KS823

## 3-Phase AC/DC Standard Source & Indicating Meter Calibrator



### Feature

- Capable of testing all types of AC ammeter, AC voltmeter, DC ammeter, DC voltmeter, power meter, AC phase meter, power factor meter and frequency meter.
- Acts as 3-phase AC standard source, as 3-phase DC standard source, 3-phase power standard source and 3-phase harmonic standard source.
- These built-ins are high precision standard sources that respectively relate to voltage, current, phase, power, power factor and harmonic (0.05 class).
- Realize closed loop control on current outputs, voltage output, power output, phase output and harmonic output guaranteeing its low drift and its steady annual stability.
- 2-19 times harmonic output, standard output in 0.1 class; while 20-31 times are those standard outputs in 0.2 class.
- Working mode: Meter Calibration Output Mode, Standard Source Output Mode.
- Built-in RS232 port allows software upgrade and calibrated data transfer without opening up the external box of the equipment.
- Software possesses self-calibration function, users can calibrate all kinds of electric measurement parameters values without opening up the external box of the equipment.
- Automatic Faults Test of software figures out where faults occur in the relay test set.
- Displaying popup Menu in English version by large TFT LCD, allows multi-operation modes.
  - Rotary encoder operation;
  - Slight-touch style keyboard;
  - Operation under PC Windows System.
- Save Volume reaches up to 1000 calibrated data.
- Calibrated data can be revised to meet due value by software, calibration report and calibrated data can get printed by software as well.

### Technical Data

#### Voltage (AC) Output/Measure

Shift	10V/30V/100V/300V/750V Auto switch
Adjusting range	0 ... 120%
Min Adjusting Unit	Shift x 0.01%
Resolution	Shift x 0.01%
Accuracy	0.05%RG (RG abbr. range)
Stability	0.01%/1min

#### Current (AC) Output/Measure

Shift	100mA/1A/5A/10A/25A Auto switch
Adjusting range	0 ... 120%
Min Adjusting Unit	Shift x 0.01%
Resolution	Shift x 0.01%
Accuracy	0.05%RG
Stability	0.01%/1min

#### Power Output/Measure

Min Adjusting Unit	Shift x 0.01%
Resolution	Shift x 0.01%
Accuracy	0.05%RG (F>0.5)
Stability	0.01%/1min

#### Frequency Output/Measure

Range	45.000...65.000Hz
Min Adjusting Unit	0.001Hz
Accuracy	0.01%RD

#### Phase Output/Measure

Range	0.00° ... 359.99°
Min Adjusting Unit	0.01°
Resolution	0.01°
Accuracy	0.05°

#### Power factor Output/Measure

Output range	-1 ... 0 ... +1
Min Adjusting Unit	0.0001
Accuracy	0.0005

#### Harmonic Output/Measure

Set range	2 ... 31 times
Content	Voltage, Current ≤ 30% (compared with Fundamental Wave)
Harmonic output accuracy	0.1%(2 ... 19 times, compared with Fundamental Wave)
Resolution	0.2%(20 ... 31 times, compared with Fundamental Wave)
Harmonic Phase	0.00° ... 359.99°

#### Output Voltage and Current distortion

<0.2%(non capacitance load)

#### Max AC Output Load

Voltage 25VA, Current 25VA

#### Voltage (DC) Output /Measure

Shift	100mV/1V/10V/30V/100V/300V/750V
Adjusting range	0 ... 120%,0...110% at shift 750V
Min Adjusting Unit	Shift x 0.01%
Resolution	Shift x 0.01%
Accuracy	0.05%RG
Stability	0.01%/1min

#### Current (DC) Output /Measure

Shift	1mA/10mA/100mA/1A/5A/10A/25A
Adjusting range	0 ... 120%
Min Adjusting Unit	Shift x 0.01%
Resolution	Shift x 0.01%
Accuracy	0.05%RG
Stability	0.01%/1min

#### Max DC Output Load

Voltage 20VA, Current 25VA

#### Index measure reference condition

Environment temperature	22 ± 1° C
Work temperature	0° C ... 40° C
Humidity range	≤ 85 %
Work power supply range	220VAC ± 15%,50Hz
Weight	27KG
Dimensions	450(D) × 180(W) × 380 (H) mm
PC Connection	RS232