

# KPM Circuit Breaker Analyzer (KPM-CBA01)



## KPM Circuit Breaker Analyzer (KPM-CBA 01)

is used for testing, analyzing and assessing power system circuit breakers, mechanical characteristics of load switches and isolated switches and other AC high voltage switches, contact resistance, Arcing contacts and vibration characteristics etc. The Circuit Breaker Analyzer cover all testing requirements of high voltage circuit breakers.

Comparing with the traditional circuit breaker tester **KPM Circuit Breaker Analyzer (KPM – CBA 01)** has the following unique advantages:

### FEATURES

- ❖ KPM CBA-01 circuit breaker test set is used for performing electrical and mechanical characteristic of high voltage, medium voltage circuit breaker, switch and contactor.
- ❖ Measure the circuit breaker time parameters (close, open, asynchronous, bounce) of 12 main contacts. Measure the co-operate time between 6 main- and 6 auxiliary contacts.
- ❖ Measure the pre-insert time and resistance of 6 resistor contacts
- ❖ Set with 12 contact state indicator lamps on panel. It is easy to judge close and open state.
- ❖ Measure the travel, over-travel, rebound, overshoot and speed of the breaker by using resistance transducer or digital transducer.
- ❖ Use a digital rotary transducer for measuring angle.
- ❖ Operate Close, Open, O-C-O, O-C, C-O control sequences.
- ❖ Test the mechanical characteristic operated by CB manually.
- ❖ Create and store 50 speed definitions of circuit breakers.
- ❖ Built-in DC control output, can used for action voltage testing.
- ❖ Built-in DC output for motor driving.
- ❖ Measure the motor current curve while motor driving.
- ❖ Use IGBT electrical switch for control outputs, with high precision and long life age.
- ❖ Built-in DC/AC current sensor for measuring close and open control current.
- ❖ Can store 60 test results in memory. Loss of power without loss of data.
- ❖ The stored data can be transferred to USB disk.
- ❖ Use the USB disk to update the tester software.
- ❖ LCD displays the operation interface, test data, contacts, travel and current curves.





# KPM Circuit Breaker Tester (KPM- CBA01)

- ❖ Thermal printer can print test result fast, include contacts, travel, and current curves.
- ❖ Max 1000 times action testing automatically.
- ❖ Use an USB cable connecting to Windows PC to operation.
- ❖ Open and analyze data on PC, generate report and print A4 report.
- ❖ English interface selectable.

## Technical specification

### Current Measurement

Coil current measurement: 0 to 30A (AC /DC)  
Resolution: 1mA

Motor current measurement: 0 to 40A (AC / DC)  
Resolution: 1mA

### Contact inputs and Time Measurement

Main contact channels: 12  
Auxiliary contact channels: 6  
Resistor contact channels: 6

Measurement time range: 0 to 20s  
Accuracy:  $\pm 0.05\%$  rdg  $\pm 0.1$ ms Resolution: 0.1ms

Sample rate: 10kHz to 100 kHz

Control Section

Control output capacity: 300V/ 30A (AC / DC)

### General

Power supply: 198 to 264VAC 47 to 63Hz

Environment : -20 to 50°C

Humidity  $\leq 90\%$ RH Non-condensing

Weight : 9kg

Dimension : 427×357×193mm

### Motion Measurement

Stroke measurement

Accuracy:  $\pm 0.5\%$  rdg  $\pm 0.2$ mm Resolution:  
0.1mm

Speed range: 0 to 20m/s

Resolution: 0.01m/s

Analog section:

1 channel

Transducer input range: 0 to 5V

Transducer resistance: 50Ω to 5kΩ

Digital section:

1 channel

Incremental transducer with RS422

Accuracy of angle:  $\pm 0.1^\circ$  Resolution: 0.05°

KPM ENGINEERING SOLUTIONS PVT. LTD.

815 A, 8th Floor, Unitech Arcadia, Sec 49,  
Gurugram – 122018 ,Haryana

Website : [www.kpmttek.com](http://www.kpmttek.com) , Email : [sales@kpmttek.com](mailto:sales@kpmttek.com)

Phone No : +91 124 4001088

