KPM Circuit Breaker Analyzer (KPM-CBA)

KPM Circuit Breaker Analyzer (KPM-CBA) 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)** has the following unique advantages:

- The integrated vibration test function of Circuit Breaker Analyzer provides a new means of detection circuit breaker mechanical characteristics for users, compared to traditional time measurement and speed measurement, the vibration fingerprint detection is easier and more efficient.
- The vibration fingerprint test results contain richer information of circuit breaker operation, for potential risk of failure or faulty breakers, it can locate the fault position quickly.
- The vibration tests do not need to change the original line connection, so the users can complete the charged detection of mechanical characteristics of circuit breaker.
- Arcing contact analysis module allows users to automatically assess the degree of loss of inside Arc suppression contact of circuit breaker without disassembly.
- Users can use Circuit Breaker Analyzer to complete the contact resistance tests hence they do not need to buy contact resistance tester separately.

Features

- Measurement of closing time, opening time, time spread between poles, time spread between units of one pole, bounces etc.
- Measurement of closing speed, opening speed and average speed.
- Measurement of clearance between open contacts, over travel, overshoot travel and total travel.
- Measurement of closing coil current time curve, opening coil current time curve and the maximum coil current
- Test travel time curve, speed time curve and acceleration time curve
- Measurement of pre-insertion resistance value and pre-insertion ion time.
- Test contact resistance
- Measurement of dynamic resistance time curve and length for arcing contacts
- Vibration test, including vibration fingerprint curve acquisition, management, and vibration fingerprint curve automatic matching.
- CO-t1-CO,O-t-CO-t1-CO,CO rated operating sequence verification test.

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- Drawing Envelopes for reference travel curve and compare travel curve with envelopes
- Mechanical travel curve automatically compare with saved travel curve
- Measurement of CO time (close-open time) and OC time (Opening-Closing time)
- Zoom, editors, statistics and analysis for measurement curves.
- Graphite contact closing time, opening time, dynamic resistance curve measurement
- 12.1-inch touch screen for control and data input
- Built-in micro printer for test results printout.
- Generate WORD format test report automatically (all reports and data can be exported through Flash disk).

Technical specification

12 channels for time measurement	3-channel supports both the time contact and resistance contact time 6-channel isolated contacts for cascaded unit measurement of pole
Time measurement	Range: 4000ms Error :< 0.1ms Resolution: 0.01ms
Travel measurement according to sensor	Linear resistance sensor: Measurement range: 0~250mm; resolution: 0.01mm; error: <0.5mm Measurement range: 0~25mm; resolution: 0.01mm; error: <0.05mm Angle resistance sensor: Measurement range: 0~360°; resolution: 0.01°; error: <0.5°
Pre-insertion resistance measurement	Range: 50~5000ohm; error :<1%RDG+2D
Dynamic resistance measurement	Test current: 25~100A Measurement error :< 1%RDG+2D
Contact resistance measurement	Range:0--10mohm Error <0.5%RDG+0.05%FS Range: 0-2mohm; Error: <0.5%RDG+2D
Speed measurement	250mm linear resistance scale: 0~20m/s; error: <0.5%RDG+2D 25mm linear resistance scale: 0~20m/s; error: <0.5%RDG+2D Angle sensor: 0~20m/s; error: <0.5%RDG+2D Acceleration sensor: 0~20m/s; error: <5%RDG+2D
Coil current measurement	Range: 0~20A; resolution: 0.001A; error: <0.01A
Vibration measurement	Range: 0~5000G; error: <3%
Internal DC power source	voltage: 12~265V; current:0~20A
Built-in 8G storage memory and 2 USB interface for data export and external keyboard or mouse connection	
Power supply	AC220V±10%; 50Hz±10%
Working environment	temperature: -10~50°C; Humidity: <80%

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Key Parameter Monitoring