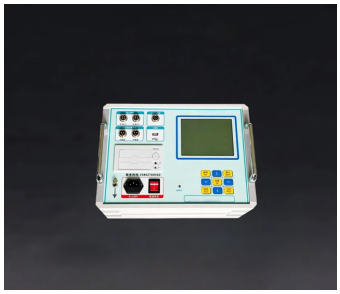
HF-WC-606

Circuit Breaker Analyzer



Our high-precision Circuit Breaker Analyzer measures all mechanical and electrical indicators of high voltage switchgears, including opening/closing time, contact bounce and loop resistance. Portable and intelligent, it supports automatic report generation. We supply reliable equipment and comprehensive technical services to global power industries.

Key features

- Opening & Closing Time : Time elapsed from command issuance to full contact movement, with millisecond-level precision.
- Phase Synchronization : Time difference in actuation among three-phase contacts; synchronization inspection is mandatory for multi-break circuit breakers.
- Travel & Velocity : Contact movement trajectory, instantaneous and average speed during opening/closing operations.
- Contact Bounce Time : Vibration duration upon contact closure, which directly impacts arc extinguishing service life.
- Coil Current Waveform : Records current curves of opening/closing coils to diagnose coil aging, mechanical jamming and other faults.

Technical specifications

Parameter	Value
Time measurement	12 channels - opening (closing) time
Time range	0.01 ms - 20 s (resolution 0.01 ms); 20 s - 200 s (resolution 0.1 ms)
Closing resistor measurement	3 or 6 channels
Resistance range	30 ohm - 10 kohm, resolution 0.1 ohm, accuracy ≤ 1 % ± 2 digits
Speed measurement	Just-open / just-close speed
Speed range	0.01 - 25.00 m/s (1 mm sensor)
Travel measurement	Contact travel, contact gap (opening distance), over-travel, over-shoot / rebound travel
Travel sensor	Linear, 50 mm range, 0.1 mm resolution
Coil current measurement	0 - 20 A, resolution 0.01 A
Power supply	AC/DC 220 V ± 10 %, 50 Hz ± 2 %
Internal trigger supply	DC 8 - 265 V continuously adjustable
Output current	≤ 15 A below 220 V (short-time); ≤ 30 A below 110 V (short-time)
External trigger	AC/DC 10 - 300 V, current ≤ 120 A (short-time)
Isolator measurement	DC 8 - 265 V adjustable output
Dimensions	380 × 280 × 170 mm
Operating temperature	-20 °C to +50 °C
Relative humidity	≤ 90 %

Standard scope of supply

No.	Item	Qty	Notes
1	Main Unit	1 Set	Core testing device
2	Displacement Sensors	2 Pcs	For stroke & speed detection

Specifications are taken from the published product data and are subject to change without notice. Confirm critical parameters at the time of order.

No.	Item	Qty	Notes
3	Current Clamps	3 Pcs	Measure opening/closing coil waveform
4	High Voltage Test Cables	1 Set	Full wiring harness
5	Trigger Lines & Auxiliary Wires	1 Set	Three-phase synchronous acquisition
6	Power Cord	1 Pc	International universal plug
7	USB Data Cable	1 Pc	
8	User Operation Manual	1 Book	Detailed operation & parameter guide
9	Calibration Certificate	1 Copy	For onsite acceptance & inspection
10	Portable Hard Carrying Case	1 Pc	Integral storage & field transport
11	Spare Fuses & Small Accessories	1 Set	Daily replacement parts

Compliance and documents

Applicable standards	[TO BE CONFIRMED] standard applied to this model
Calibration certificate	[TO BE CONFIRMED]
Optional accessories	[TO BE CONFIRMED]

Warranty and support

12-month warranty on every exported instrument. English operation manual and remote video guidance at commissioning. T/T, L/C at sight and deposit terms for bulk orders; sea, air or rail shipping.

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