



CIBRE-60B

6-Contact Circuit Breaker Analyser
with Built-in Battery & Printer





Contact Timing & Motion Tests

6 Dry Contact Inputs

CIBRE-60B 6-Contact Circuit-Breaker Analyser with Built-in Battery & Printer

CIBRE-60B, 6 Contacts Circuit Breaker Analyser is designed using advanced engineering technology to test contact timings of circuit-breakers.

CIBRE-60B has a fast, easy and accurate measurement features by its user-friendly software.

CIBRE-60B is a battery-powered device, which allows users to perform tests even without power supply during on-field tests.

Why to test circuit breakers?

It is very important to test circuit breakers regularly. Contact Timing Tests and Motion tests are performed to determine the optimal performance of the breakers. The testing can determine improper breaker operations in case of system fault and to improve system reliability.

Contact Timing Tests

Contact timing tests are performed to compare the breakers' main & resistor contact performance against the manufacturer's specifications.

The breakers OPEN, CLOSE, OPEN-CLOSE, CLOSE-OPEN & OPEN-CLOSE-OPEN operations are timed in milliseconds (ms) and cycles and then compared with the manufacturer's specification to determine the performance of the circuit breaker.

Motion Tests

CIBRE-60B can use to perform motion tests such as Transducer Speed, Stroke and Bounce. Slower transducer speed can reduce the breaking capacity of the main contact while faster speed can cause mechanical damage to the damping components and cause excessive vibration. So it is necessary to test the transducer speed to compare it with manufacturer's specifications.

CIBRE-60B features with a 7-inch large colour touch display, which is visible under both bright sunlight as well as dim light conditions.

With the HighTest Data Management Platform (DMP Software), users can analyse and manage measurement results on PCs.

Operators can easily print the measurement results with the 2.28-inch built-in printer of CIBRE-60B. The results can also save to a USB flash drive or to the device's internal memory.

Multi-language capability and user-friendly operation menu make it easy to control CIBRE-60B.

CIBRE-60B is a light-weight, compact and rugged device with the protection of IP67 (case closed) which makes it perfect for the field test.






Features

- Contact Timing (O, C, O-C, C-O and O-C-O)
- Motion Tests (Transducer Speed, Stroke, Bounce)
- 6 Dry Contact Inputs
- Timing Accuracy: 0.05% rdg \pm 0.1 ms
- Timing Windows: 1s, 10s & 20s
- Contact Detection Range: Closed \leq 20 Ω & Open \geq 5000 Ω
- Built-in Battery
- Optional Bluetooth Communication
- PC Software
- 2.28" Built-in Printer
- 7" TFT Touch Colour Display
- Light-weight and Portable
- Protection Class IP67 (case closed)

Technical Specifications

Measurement Parameters	Contact Timing (O, C, O-C, C-O & O-C-O), Motion Tests (Transducer Speed, Stroke, Bounce)		
Dry Contact Inputs	6 dry input channels (each detects main) and insertion resistor contacts		
Timing Windows	1s, 10s, 20s		
Timing Resolution	1 s duration	10 s duration	20 s duration
	\pm 50 μ s	\pm 500 μ s	\pm 1 ms
Timing Accuracy	0.05% rdg \pm 0.1 ms		
Dry contact channel protection	Fuses and Diodes protection, All contacts grounded until test		
Contact detection range	Closed	\leq 20 Ω	
	Open	\geq 5000 Ω	
Resistor detection range	20 Ω - 5000 Ω		
Trigger input voltage	24 – 300 V DC or AC _{peak}		
Dry contact input protection	Diode Protection/ ESD		
Breaker Operations	OPEN, CLOSE, OPEN-CLOSE, CLOSE-OPEN, OPEN-CLOSE-OPEN		
Voltage sensing input range	V1 (Analogue Input)	V2 (Presence/Absence Detector)	
	0 – 250 V DC or AC _{peak}	24 – 300 V DC or AC _{peak}	
Breaker Initiate Capacity	20 A, 300 V DC or AC _{peak}		
Digital Travel Transducer Input	5V/12Vdc TTL		
Initiate current reading range	0 – 20A DC, 5 kHz		
Input Power	100-240 V, 47/63 Hz		
Built-in Battery	Yes, 14.4 Vdc 6.9 Ah		
Display	7-inch Colour Touch Display		
Memory	Up to 200 records (recommended for better device performance)		
Communication	USB 2.0/1.1 Standard-A, USB 2.0/1.1 Standard-B Bluetooth (Factory install option; Model: CIBRE-30B BLUE)		
Printer	2.28-inch Built-in Printer		
PC Software	DMP Software (Windows 10)		
Dimensions	16.9" x 12.9" x 9.3" (429 mm x 328 mm x 236 mm)		
Weight	8.2 kg (models with battery)		
Working Temperature	-10 °C to + 60 °C		
Humidity	90% RH non-condensing		
Protection Class	IP67 (case closed)		

Specifications are valid at/under 25 °C temperature. *Contents subject to change without notice.



HighTest Technology Ltd. is a leading manufacturing company based in the UK which produces highly precise test equipment. We mainly focus on the development, manufacture, and marketing of Transformer test systems.

We have several years of experience in the field of developing and producing high-end test equipment. Customer satisfaction is our prime motto. We supply our test equipment worldwide to Transformer manufacturers, Electrical utilities, general contractors and service companies. Our test equipment is designed and produced according to the most widely adopted international standards. As we value our customers the most, our well-experienced team always provide excellent after-sales support and technical assistance.



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