

# CIBRE-60

6-Contact Circuit Breaker Analyser  
with Built-in Printer







## CIBRE-60 6-Contact Circuit-Breaker Analyser with Built-in Printer

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

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

CIBRE-60 is a battery-powered device (optional feature), which allows users to perform tests even without power supply during field tests.

### Why do we need 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-60 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.

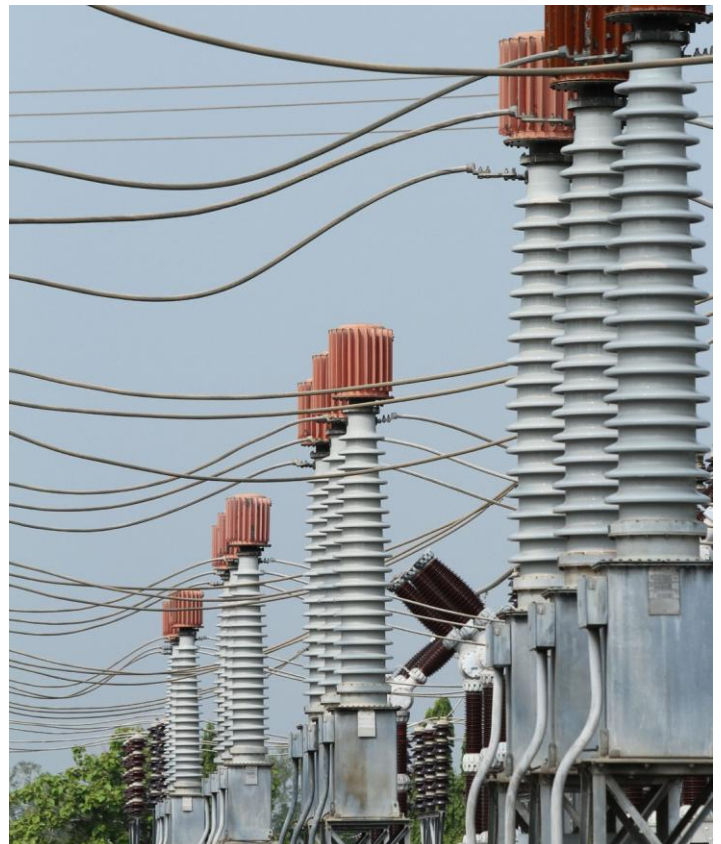
CIBRE-60 features with a 7-inch large colour touch display, which is visible under both bright sunlight as well as dim light conditions.

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-60. 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-60.

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





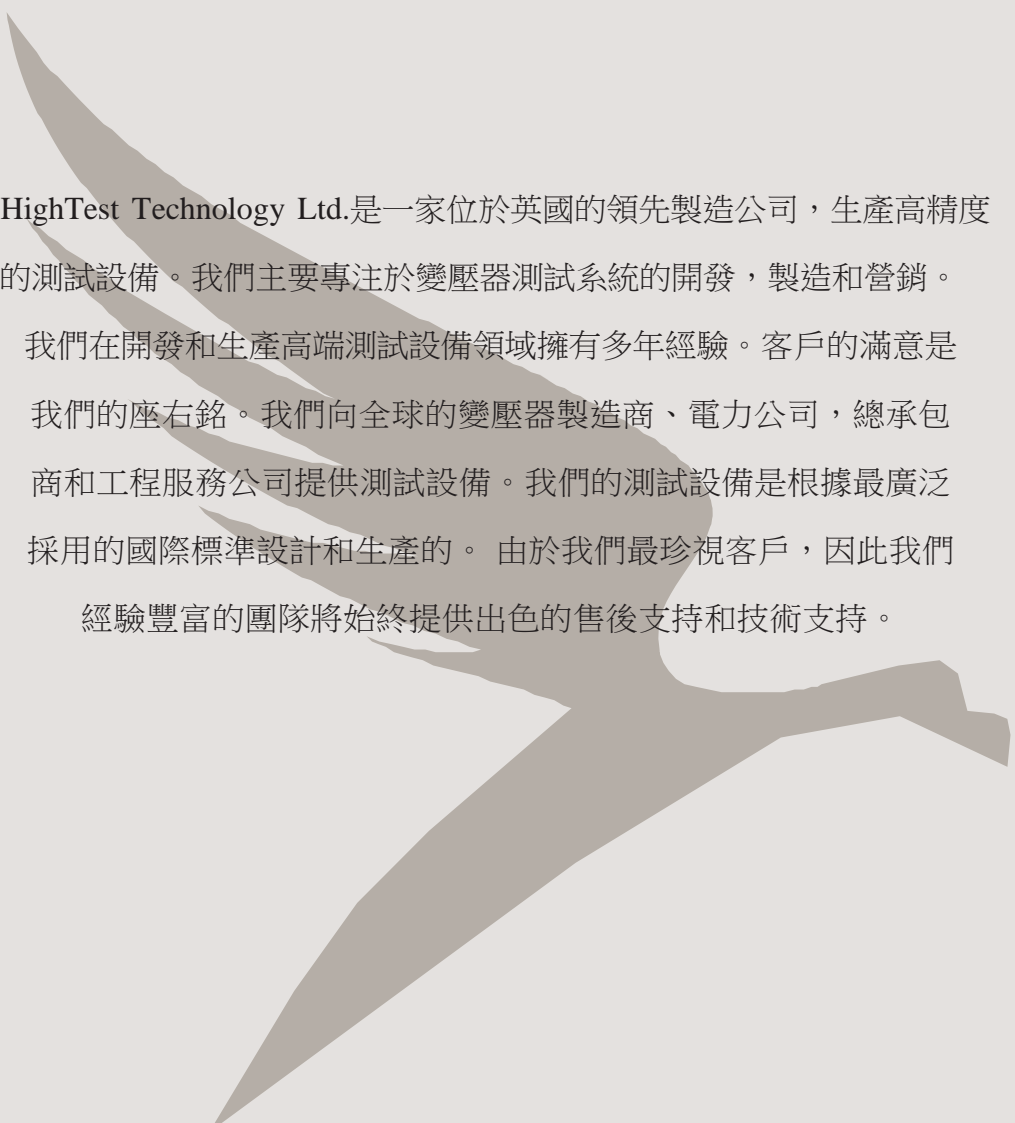
## Features

- 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  $\leq 20 \Omega$  &
- Open  $\geq 5000 \Omega$
- Optional 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
	± 50 μs	± 500 μs	± 1 ms
Timing Accuracy	0.05% rdg ± 0.1 ms		
Dry contact channel protection	Fuses and Diodes protection, All contacts grounded until test		
Contact detection range	Closed	≤20 Ω	
	Open	≥5000 Ω	
Resistor detection range	20Ω- 5000Ω		
Trigger input voltage	24 – 300 V DC or AC <sub>peak</sub>		
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 <sub>peak</sub>		24 – 300 V DC or AC <sub>peak</sub>
Breaker Initiate Capacity	20 A, 300 V DC or AC <sub>peak</sub>		
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 (Optional; Model: CIBRE-30B, CIBRE-30B BLUE)		
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.是一家位於英國的領先製造公司，生產高精度的測試設備。我們主要專注於變壓器測試系統的開發，製造和營銷。

我們在開發和生產高端測試設備領域擁有多年經驗。客戶的滿意是我們的座右銘。我們向全球的變壓器製造商、電力公司，總承包商和工程服務公司提供測試設備。我們的測試設備是根據最廣泛採用的國際標準設計和生產的。由於我們最珍視客戶，因此我們經驗豐富的團隊將始終提供出色的售後支持和技術支持。



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