



Circuit Breaker Test System

(Battery Operated)

سیستم تست کلیدهای قدرت



CE

The complete toolbox for testing and analyzing high, medium and low voltage circuit breakers.

Features

- Measurement of time and motion
- Performance tests of coil, motor, and optional tests such as anti-pumping relay, under voltage relay, blocking coil, and ...
- Special tests for contactors and non-operating mechanism breakers
- Ability to test the minimum voltage of the coils (optional)
- Graphical results for quick interpretation
- PC control with BTSOFT software
- Extremely reliable and easy to use
- Battery and main line operated with fast charge

Applications

- Circuit breaker manufacturers
- Repair and maintenance of electrical power plant companies
- Electrical power plant EPC companies
- Electrical power labs
- Big factories e.g. Steel, petrochemicals, refineries, and ...



BT121 Specifications

Specifications are valid at nominal input voltage and an ambient temperature of +25°C, (77°F).
Specifications are subject to change without notice.

General

Type	Portable Circuit Breaker Analyzer
Main Voltage	100-240V AC/DC , 50 Hz
Built-in Battery With Automatic Charger	Li-ion, 11.1V/ 7800 mAh
Charge Time	2 Hours Full Charge
Battery Run Time	16 Hours
Dimensions (L x W x H)	Basic Unit 460 x 330 x 150 mm
Weight	9.5 kg
CE Marking	EMC 2004/108/EC LVD 2006/95/EC

Breaker Operation

Sequences (C:close, O:open)	C , O , C-O , C-T-O , O-T-C , O-T-C-O
Close / Open1 / Open2 Coil Voltage And Current	0-250V AC/DC (Set Automatically) , 50 Hz , 10A
Motor Voltage And Current	0-250V AC/DC (Set Automatically) , 50 Hz , 10A

Time Measurement

Contact Inputs	16 Input Channels (3 Main,13 Auxiliary)
Time Contacts Range	0 to 999 ms
Time Spring Charge Range	40 s
Resolution	0.1 ms
Inaccuracy	0.01% Of Printed Value $\pm$ 0.1 ms
Start Time Measurement	With Operation Mechanism (Coil Energizing) Without Operation Mechanism (Changes In The Each Main Contacts)
Time Difference Between Control Pulse And Timer Start	< 0.1 ms

Motion Analyzer

Measurement Resolution	< 0.1 mm
Basic Inaccuracy	0.5%
Time-Base Inaccuracy	0.02%
Measurement Interval	999 ms
Sampling Frequency	10 kHz
Analog Travel Transducer Input	Three Resistive Transducer / 100 Ω to 10 k Ω
Digital Travel Transducer Input	One Rotary Encoder / 2500 Pulse/r

Environment

Operating Temperature	-20 to 55°C (- 4 to 131°F)
Storage Temperature	-30 to 70°C (- 22 to 158°F)
Humidity	20% – 95% RH , Non-Condensing

Miscellaneous

Storage Capacity For Over 96 Test Records
Internal Thermal Printer
USB Interface
PC Software

Accessories

Motor Test Lead Set (4 x 4m) 	Coil Test Lead Set (5 x 4m) 
Main Contacts Test Lead Set (3 x 8m with Clamps) 	Earthing Cable (4m with Clamp) 
Power & USB Cables 	Case Cover & Cable Bag 

One Year Warranty, Five Years After Sales Services