

BT₁₂

Circuit Breaker Test System



CE

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

Features

- ▶ Measures timing and motion (travel)
- ▶ Tests Coil, Motor, anti pumping relay, blocking coil, under voltage relay,...
- ▶ Graphical results for quick interpretation
- ▶ PC control with BTSOFT software
- ▶ Extremely reliable and easy to use

Applications

- ▶ Circuit breaker manufacturers
- ▶ The companies that maintain and repair electrical power plant power station, substation, refineries and factories
- ▶ Electrical engineering companies and electrical power labs



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
CPU	8 Bit Micro Controller @ 14.7 Mhz
Display	4*20 Character LCD With Back Light
Memory ROM	64 Kbyte
Memory RAM	128 Kbyte
Main Voltage	220V AC, 50 Hz
Standby Current	30 mA
Power Consumption	6.6 VA
Dimensions	Basic Unit 460 x 150 x 330 mm (18.1" x 5.9" x 12.9") Cover Case 480 x 170 x 350 mm (18.8" x 6.6" x 13.7")
Weight (Basic Unit)	9 kg (19.8 lbs)
Computer Interface	One RS-232 Port, One USB Port
Internal Test Record Storage	Stores Up To 96 Test Records
Keypad	Rugged Membrane Keypad (10 Alpha-Numeric Keys, 6 Function Keys)
Warranty , After Sales Service	One Years , Ten Years
CE Marking	EMC 2004/108/EC LVD 2006/95/EC

Breaker Operation

Sequences	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 ± 0.1 ms
Start Time Measurement	Mid Operation Mechanism (Coil Energizing) Non 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	Resistive Transducer / 100 Ω to 10 kΩ
Digital Travel Transducer Input	Rotary Encoder / 2500 Pulse/r

Printout

Types Of Printout On Unit	Time Test Result (Site Name, Date, Time, Test Name, Serial Number, Sampling Time, Contact Operation Time: [First Change, Last Change Duration, Out Of Sync] Start Delay, Contacts & Coil Current Curves)
Printer Method	Thermal Printer With Fixed Print Head
Resolution (Graphic)	Resolution 6 Dots/mm (203 dpi)
Paper	Width 58 ± 0.5 mm (2.28" ± 0.2")
Types Of Printout By BTSoft	Time Test Result And Traveling (Motion) Test Result

PC Software

BTSoft	Windows® 95 / 98 / ME / 2000 / XP / VISTA / SEVEN 7 Software Is Included With Purchase Price
Language	English / Persian

Environment

Operating Temperature	-5 to +45°C (23 to +113°F)
Storage Temperature	-10 to +60°C (15 to +140°F)
Humidity	20% - 80% RH , Non-Condensing
Altitude	2000m (6562 Ft) To Full Safety Specifications

Accessories

Connection Cables (Motor Cables, Coil Cables, Power Cable, Main Contacts Cables , Earthing Cable, RS232 Cable, USB Cable)
User Manual + Quick Reference + Calibration Report + BTB0FT (1 CD)
Cover Case And Cable Bag
Rotary Transducer Omron (Optional)
Linear Transducer Novotechnic (Optional)
Universal Support For Transducer (Optional)
Motor & Coils & Contacts Cables - 15 Meter (Optional)
Carrier Case (Heavy Duty Transport Case) (Optional)

TAPCO:

Apt. 4, No. 3, Baharestan 3, Cross of Jannatabad-Iranpars, Tehran-Iran
Tel:44827461 Fax:44827468 INFO@TPP-CO.COM WWW.TPP-CO.COM