



# Circuit Breaker Test System



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
- Repair and maintenance of Electrical power plant companies
- Electrical power plant EPC companies
- Electrical power labs



**TAPCO**®  
TARASHE PARDAZE POOYA

# 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	<b>Basic Unit</b> 460 x 150 x 330 mm (18.1" x 5.9" x 12.9") <b>Cover Case</b> 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 Year , Ten Years
CE Marking	<b>EMC</b> 2004/108/EC <b>LVD</b> 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 ± 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 Puls/r

## Printout

Types Of Printout On Unit	<b>Time Test Result</b> (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 8 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 + BTSOFT (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)	

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