

CBA-32P

Circuit Breaker Analyzer

Circuit breaker testing per IEC 56 international standards

ZENSOL.com



CONTACT INPUTS (Digital 3 states)

Number available: 3, 8, 16, 24 or 30 contacts
 Each contact detect simultaneously the main contact AND the resistive contacts.
 Can also be used to measure auxiliary contacts (52a / 52b)
 Open circuit voltage: 40 V DC
 Maximum number of main contacts: 30
 Maximum number of resistive contacts: 30
 Each input handles 2 contacts.
 States:
 Closed ($r < 30 \Omega$) preinsertion ($30 \Omega < r < 5 \text{ k}\Omega$)
 open ($r > 5 \text{ k}\Omega$)
 400/500 kV: closed ($r < 30 \Omega$) preinsertion ($30 \Omega < r < 4 \text{ k}\Omega$)
 open ($r > 4 \text{ k}\Omega$)
 800 kV: closed ($r < 30 \Omega$) preinsertion ($30 \Omega < r < 2.5 \text{ k}\Omega$)
 open ($r > 2.5 \text{ k}\Omega$)
 Preinsertion resistance measurement (option): Capability of measuring the ohmic value of preinsertion resistance (RES-8, RES-16, RES-24)
 Type of connector: 3-pin neutrik male

COMMAND OUTPUTS / CURRENT INPUTS

Testing current: 2 built-in current sensors (one for close coil current, one for open coil current AC/DC)
 8 ranges software selectable: 0-20A, 0-10A, 0-5A, 0-1A, -20+20A, -10+10A, -5+5A, -1+1A
 Use of Shunts NOT required to measure the current.
 Maximum input voltage: 0-300 V
 Voltage isolation to chassis: 2 kV
 Unlimited numbers of programmable commands: up to 30 tests per file
 Close, open (trip), close-open (trip free), open-close (reclose), open-close-open, close-delay-close-open, close-open-close-open, open-close-open-close, etc
 All tests are done according to the international standard IEC56.
 Pulse width: 0 to 999 s, with one ms precision.
 Pulse delay: 0 to 999 s, with one ms precision.

ANALOG INPUTS (Open hardware architecture)

Number: 5 or 8
 Resolution: 12 bits A/D converter
 Universal Analog input range: 0 to 10 V DC
 Type of connector: 3-pin neutrik female
 3 or 6 general-purpose ANALOG inputs (software-configurable) can be easily configurable to measure auxiliary contacts or can fit various transducers.

WET CONTACT INPUTS (Digital 2 states)

Number: 3 or 6
 Response time: 5 μ s in turn on or 40 μ s in turn off
 Input voltage: Range from 0 to 300 V DC
 Activation mode: 50 V DC

DIGITAL INPUTS FOR OPTICAL ENCODERS (option)

Number: 3 or 6
 Resolution: 2000 pulse / revolution
 Type of transducer: Incremental
 Type of connector: 4-pin neutrik male
 3 or 6 ENCODER inputs (software-configurable)

MEASUREMENTS

Sampling times: 32 μ s to 32,000 μ s
 Sampling rate: 31.25 Hz - 31,250 Hz
 Recording time: 1 ms to 17 minutes
 Resolution: 32 μ s
 Accuracy: $\pm 32 \mu$ s
 Graphic representation resolution: Unlimited software zoom

STATIC AND DYNAMIC RESISTANCE MEASUREMENT (Option)

Ranges: From 10 μ Ω to 3 m Ω
 Accuracy: Values of the main and arcing contact resistances
 Testing current: 100 A - 1000 A
 Voltage: 10 V DC
 Supply voltage: 120 V / 60 Hz or 220 V / 50 Hz
 Environment: Any voltage environments (up to 800 kV)

FIRST TRIP MONITORING (Option)

Input current: Typical: 1 to 5 A Max: 50 A
 Output voltage: 0-10 V DC
 Response time: Instantaneous
 No external power required. (Power supplied by the CBA-32P)

GENERAL

Dimensions:
 3 cases available
 13"x13.5"x7" (33x35x18 cm)
 17"x16.5"x10" (43x42x25.4 cm)
 18"x19"x8.9" (46x48x22.6 cm)
 Weight:
 MICRO CBA-32P : 18.6 lb (8.45 kg)
 CBA-32P 8C : 29 lb (13 kg)
 CBA-32P 16C or 24C : 38 lb (17 kg)
 Power supply: 220 V / 50 Hz or 120 V / 60 Hz
 Working temperature: 0°C (32°F) to 50°C (132°F)
 Storage temperature: -20°C (-4°F) to 70°C (158°F)
 Humidity: 0-95% Non Con.
 Language: English, French and Spanish

OPTIONS AND OTHER ACCESSORIES

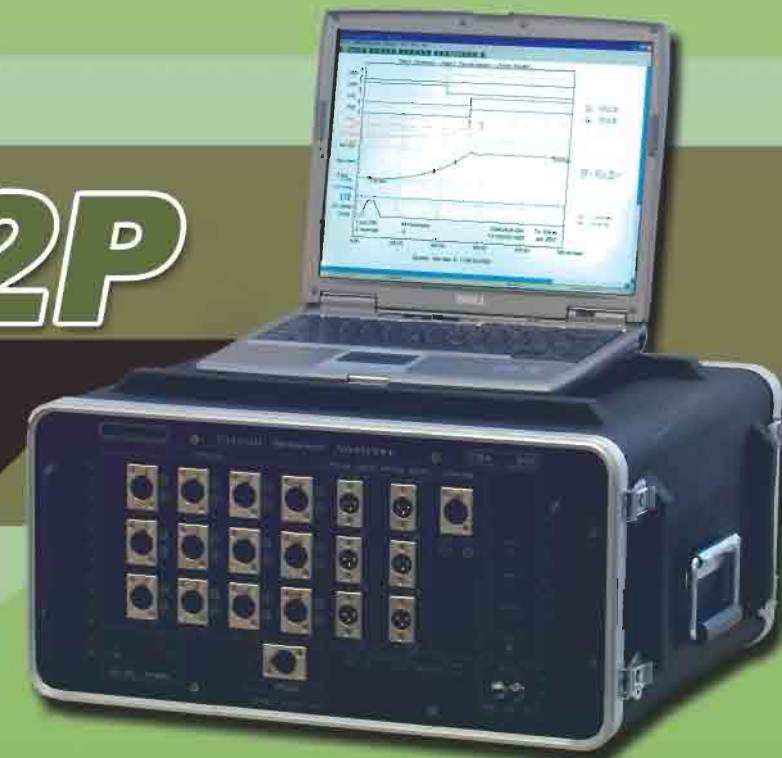
Extension cables (several lengths available)
 ARCTIC cables -50°C (-58°F) to 80°C (176°F)
 Displacement linear and/or rotary and/or optical transducers
 Large choice of mechanical adapter for various breakers
 Motion converter kit ZLR
 Portable printers
 Etc.

PRICES INCLUDE:

CBA WIN software with Unlimited free upgrades
 Adapter for RS232/fiber optic data link (57600 baud) with 10 feet fiber optic cable
 Complete set of I/O cables including contact cables, displacement cables, ground cable, and command cable
 2 year Warranty
 Complete set of manuals including operator's guide, installation, set-up and analysis manual and tabular report designer manual
 Unlimited free upgrades of the manuals
 Certificate of calibration & test reports.

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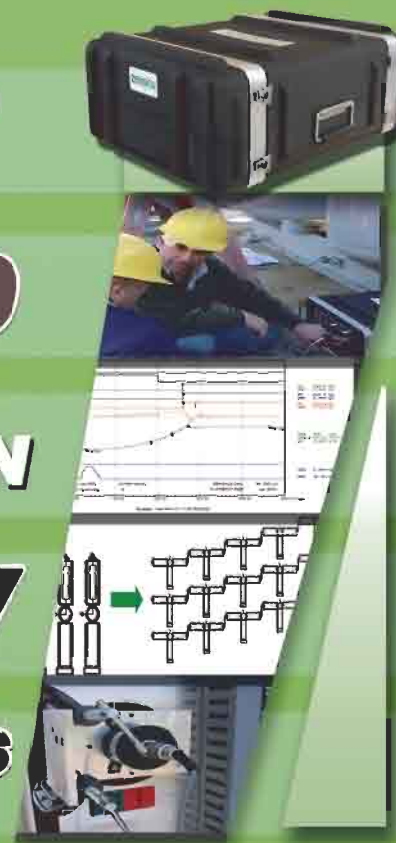


STRONGLY BUILT
STRONGLY BACKED

CBA WIN
CORE OF THE SOLUTION

ONLY SYSTEM
ABLE TO TEST 3C TO 30 CONTACTS UP TO 800 KV

A COMPLETE RANGE OF ACCESSORIES



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