

Technical specifications CB14

RECORDING CHARACTERISTICS

Sampling time: 5 microseconds (μ s) to 26 milliseconds (ms)

Sampling rate: 38 Hz to 200 kHz

Recording time: 10 milliseconds (ms) to 30 minutes

A/D conversion: 16 bits

EXTERNAL TRIGGER CAPABILITY

Work on any analog input

AC or DC signals

Rising or falling edges

DIGITAL INPUTS FOR DRY CONTACTS (3 states)

Number available: 6

Contacts power supply: 40 V DC

Model:

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 ($30 \Omega < r < 2.4 \text{ k}\Omega$)

Open ($r > 2.4 \text{ k}\Omega$)

Each input contains 2 contacts and detects both main and resistive contacts. Each input may also be used to measure auxiliary (a/b type) or any dry contacts.

DIGITAL INPUTS FOR WET CONTACTS (2 states)

Number available: 2 available on the front panel and 6 maximum available via external cables

Response time: 5 μ s (turn-on), 40 μ s (turn-off)

Input voltage: 0-300V AC/DC

Switching voltage: 50V DC

MULTIFUNCTION ANALOG INPUTS (16 BITS)

Number available : 3

Resolution : 16 bits conversion A/D

Accuracy : +/- 1 mV

Input voltage range: -10 à 10 VDC (compatible with all industrial transducers)

Analog inputs are also used for:

KIT MO-SD: Main and arcing contact for Dynamic Contact Resistance Measurement (DCRM)

KIT ZLB: Linear resistive motion

KIT ZMS: Analog rotary motion with resistive rotary transducer

KIT ZLR: Linear to rotary motion with resistive rotary transducer

Zensol

KIT ZFT: First trip test
ZVS: Voltage transducer
ZCS: Current transducer

DIGITAL INPUTS FOR OPTICAL ENCODERS (16 bits)

Number available: 1
Resolution: 8000 pulses/revolution
Type of transducer: Incremental
Automatic reset to zero before each test.
KIT ZMS: Digital rotary motion with digital encoder transducer
KIT ZLR: Linear to rotary motion with digital encoder transducer

COMMAND OUTPUTS / CURRENT INPUTS

Command outputs: 2 completely independent (close and open, able to break up to 30A and 300V AC/DC)
Current inputs: 2 integrated and independent current transducers (in series with the command outputs)
Software selectable current ranges: +/-20A, +/-10A, +/-5A, +/-1A
Note: Hall effect current transducer needs no shunt to measure the current!

IMPORTANT NOTE: All CBA/CBV accessories (cables, transducers, adaptors, etc.) may be used with the CB14.

GENERAL

Size: 18.7" x 14.8" x 7" (47.5 x 37.5 x 18 cm)
Weight: < 15.43 lb (7 kg)
Power supply: 100-240V AC (50-60 Hz +/- 10%)
Operating temperature range: 0°C à 50°C (32°F à 122°F)
Storage temperature range: -20°C à 70°C (-4°F à 158°F)
Humidity: 0-95% Non-condensing

THE SYSTEM INCLUDES

OpenZen software
Complete set of manuals
Calibration certificate and test reports
2 years warranty