

Technical Specifications CBV-X

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

DIGITAL INPUTS FOR DRY CONTACTS (3 states)

Number available: 6 or 12 contacts

Contact power supply: 40 VDC

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 contact may also be used to measure auxiliary (a/b type) or any other dry contacts.

MULTIFUNCTION ANALOG INPUTS (16 BITS)

Number available: 3 or 6

Resolution: 16 bits A/D conversion

Accuracy: +/- 1 mV

Input voltage range: -10 to 10 VDC

It's possible to connect a wide range of transducers (motion, voltage, current, pressure, humidity, temperature ...)

Note: 10 VDC is supplied on the Neutrik connector

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

KIT ZFT: First trip test

ZVS: Voltage transducer

ZCS: Current transducer

ACCELEROMETER INPUTS

Number: 3 or 6

Accelerometer type: ICP

Full scale ranges: $\pm 50g$, $\pm 500g$, $\pm 1000g$

Frequency range: 1 to 20 000 Hz

Zensol

COMMAND OUTPUTS/CURRENT INPUTS

Command outputs: 2 completely independent contactors (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 two contactors)

Four software selectable current ranges: +/-20A, +/-10A, +/-5A, +/-1A

Hall effect current transducer needs no shunt to measure current.

DIGITAL INPUTS FOR OPTICAL ENCODERS (16 bits)

Number available: 3 or 6

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

DIGITAL INPUTS FOR WET CONTACTS INTERNAL OR EXTERNAL OPTION (2 states)

Number available: maximum of 6

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

Input voltage: 0-300V AC/DC

Switching voltage: 50V DC

GENERAL

Size: 17" x 16.5" x 10" (43 x 42 x 25.4 cm)

Weight: 19.84 lbs (9 kg)

Power supply: 100-240V AC (50-60 Hz +/- 10%)

Operating temperature range: 0°C to 50°C (32°F to 122°F)

Storage temperature range: -20°C to 70°C (-4°F to 158°F)

Humidity: 0-95% non-condensing.

THE SYSTEM INCLUDES

OpenZen software

Complete set of manuals

Calibration certificate and test reports

2 years warranty

ANALOG TRIGGER CAPABILITY

Works on any analog input

AC or DC signals

Rising or falling edges