

OTM-XB

STANDALONE SPORADIC EVENT RECORDER
FOR CIRCUIT BREAKERS



What is the OTM-XB ?

The OTM-XB is the only standalone recorder to use the vibroacoustic method that detects intermittent and sporadic operational faults on working circuit breakers.



Detected problems	Test methods	CB11		CBA-32P		CBV-X		OTM-XB	
		Online	Offline	Online	Offline	Online	Offline	Online	Offline
Contact timing	Timing test		✓		✓		✓		
Contact bounce	Timing/Motion test		✓		✓		✓		
Bad damping	Motion test		✓		✓		✓		
Main contact wear	Micro-ohmmeter test		✓		✓		✓		✓
Arcing contact wear	Dynamic resistance test		✓		✓		✓		✓
Open and close coil assessment	Coil current test	✓	✓	✓	✓	✓	✓	✓	✓
Motor assessment	Current and voltage test	✓	✓	✓	✓	✓	✓	✓	✓
First trip	Measure current over 3 phases	✓		✓		✓	✓	✓	✓
Bad mechanical adjustment	Vibration test					✓	✓	✓	✓
Bad alignment	Vibration test					✓	✓	✓	✓
Bad contact timing	Vibration test					✓	✓	✓	✓



The only standalone recorder to use the vibro-acoustic method on breakers

Listen to the heart of your circuit breaker like a doctor with a stethoscope.

Detect hidden problems that are undetectable by traditional methods (motion, timing)

Using vibro-acoustics.

Records vibro-acoustics tests while the breaker is ON LINE !

Your new money and time-saving tool !

Automatic recording of operations.

Once installed, it is completely autonomous.

Remote testing



Technical specifications

OTM-XB

RECORDING CHARACTERISTICS

Sampling time: 10 μ s to 26ms
Sampling rate: 38Hz to 100kHz
Recording time: 10ms to 30 min
A/D conversion: 16 bits
Local storage capacity: 64Go

ACCELEROMETER INPUTS

Number: 3
Accelerometer type: ICP
Resolution: 16 bits A/D conversion
Full scale ranges: +/-50g, +/-500g, +/-1000g
Frequency range: 1 Hz to 200 kHz
Signal to noise ratio: better than 80DB

MULTIFUNCTION ANALOG INPUTS (16 bits)

Number: 5
Resolution: 16 Bits A/D conversion
Accuracy: +/- 0.3 mV
Input voltage range: +/- 10VAC (compatible with any transducers)

COMMAD OUTPUTS

Command outputs: 3
Type: solid state, opto-isolated
Voltage range: 2-200VDC
Max. load current: 3.5 A
Turn-on time: 75 μ s maximum
Turn-off time: 750 μ s maximum
Independently controlled turn-on and turn-off timing

REMOTE ACCESS

- Continuous and complete control of data, test plans, software
- Ability to perform tests remotely
- Easy access to recorded data via your network
- Completely automated and scheduled tasks

ETHERNET PORT

Bandwidth: 10/100 Mo/s
Remote control and retrieval of data

USB PORT

Bandwidth: 12/480 Mo/s

OPTIONAL ACCESSORIES

Accelerometers
Current clamps
Local memory expansion
USB memory stick
USB bluetooth module
USB Wi-Fi module
10-32 to BNC cables (3 feet)
BNC-to-BNC extensions (25 and 50 feet)
Cable reel with 4 extensions of 50 feet
Accelerometer mounting bases
Glue
Waterproof case

GENERAL CHARACTERISTICS

Size: 19" x 3.5" x 18" (48.2 x 8.8 x 45.7 cm)
Weight: 13.2 lbs (6 kg)

Power supply: 100-240 VAC 50/60 Hz +/- 10%
Operating temperature range: 0 to 50°C (32°F à 122°F)
Storage temperature range: -20°C to 70°C (-4°F à 158°F)
Humidity: 0-95% non condensing

ANALOG TRIGGER CAPABILITY

Works on any analog input
AC or DC signals
Rising or falling wavefronts
Works in noisy environments

SPECIAL PROTECTION

