

B&R - X20 System**X20CM4810**

Condition Monitoring Module

Technical specifications

Vibration inputs	4
Sensor type	IEPE acceleration sensor
Digital converter resolution	24-bit
Conversion procedure	Sigma-delta
Sampling frequency	51.5625 kHz
Permissible input signal	±10 VAC
Input high-pass cutoff	34 mHz
Input low-pass cutoff	19.75 kHz
Configurable downsampling	200 Hz, 500 Hz, 1 kHz, 2 kHz, 5 kHz, or 10 kHz
IEPE sensor supply	5 mA constant current, 4.9 to 5.5 mA, switchable per channel
Open-circuit detection	Per channel
Nominal voltage	24 VDC ±20%
Electrical isolation	Channels isolated from bus; channels not isolated from one another
Required bus module	X20BM31, ordered separately

Documented role

B&R X20CM4810 is a four-channel IEPE vibration acquisition and analysis module for machine condition monitoring for the X20 System.

Documented applications

- Rotating-machine imbalance monitoring
- Periodic-impact detection in mechanical equipment
- Bearing-damage analysis using IEPE acceleration sensors

Selection and installation checks

X20CM4810 is intended for four IEPE acceleration channels; verify sensor sensitivity and mounting, cable integrity, switchable sensor supply, sampling and analysis settings, X20BM31, X20TB12, and saved condition-monitoring parameters before replacement.