

FX023-C12A000 Data Collection Module

- The data collection module is installed in the hub of the wind turbine to collect vibration signals from piezoelectric sensors which are installed on the blades.
- After data conversion, filtered, down sampled, and other related processed, the vibration signals of blades and the status data of sensor are transmitted to the main control system of the wind turbine through Profibus-DP or CAN open.
- The data collection module has functions such as real-time collection of vibration signal, fault data storage, data query and download, and parameter configuration for monitoring the blades' status and analyzing the blades' fault.



✧ Key Features

- ▶ EMC performance: Class A
- ▶ High-level lightning protection
- ▶ Three-proof processing measures beyond military grade
- ▶ High-performance processing chip and system configuration
- ▶ System is updated and maintenance through Web
- ▶ 10K samples of snapshot data, perfect fault location and analysis functions

✧ Technical Data

Specifications	FX023-C12A000
Sampling Channels	Twelve IEPE channels and one electric relay channel
Synchronous Sampling	Yes
Range for sampling Frequency	0.1KHz to 2KHz
Sampling Frequency	≥8K
CPU	Dual Core Processor: Arm Cortex-A9 + FPGA; Basic Frequency: 766MHz
Memory	DDR3 1G
Storage	EMMC 8G
OS	Linux
Communication Interface	Ethernet Interface for maintenance: Profibus-DP or CAN open
Voltage of supply power	24VDC±20%
Current of supply power	≤2A
Protection Class	IP20
Working Temperature	-40°C to 70°C
Storage Humidity	<5% to 95% (condensate free)
Size	In case with Binding bracket: 190mm × 158mm × 83mm; In case without Binding bracket: 190mm × 158mm × 73mm