



FS223 Generator Shaft Voltage and Current Monitoring Module

- Wind turbine generators face risks such as high-frequency common-mode voltage interference and grounding carbon brush wear, which potentially cause failures compromising mechanical structural stability of the generator.
- FS223 shaft voltage and current module, providing real-time monitoring and acquisition of the generator's shaft voltage and current. Module will output a hardware alarm signal and simultaneously records data during the abnormal state, facilitating fault analysis and localization.

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♦ Key Features

- Utilizes a 16-bit high-precision ADC acquisition chip for synchronous voltage and current sampling.
- Equipped with both hardware and software watchdogs to provide dual protection for the normal operation of modules.
- ► Features two-channel hardware interfaces, with an internal relay that can output hardware alarm signals.
 - Includes data storage functionality for peak-to-peak values and RMS values.
- ► A customized host computer allows for flexible setting of alarm thresholds, data storage duration, and other parameters.
 - Provides a ±12V power output interface to supply power to the current sensor.
- Equipped with reverse polarity protection, enhanced EMC designs for improving ability of antiinterference.

♦ Technical Data

Specifications	Parameters	Specifications	Parameters	
Operating Power Supply	24V±20% DC	Voltage Alarm Threshold	±0.5V	
Module Power Consumption	4.5W Max	Current Alarm Threshold	±0.5A	
Voltage Measurement Range	±50V	Communication Mode	RS485 (19200bps, 1, 8, N)	
Current Measurement Range	±50A	Communication Mode		
Measurement Error	≤1%FS	Protection Level	IP20	
Sampling Frequency	≥20kHz	Operating Temperature	-40°C to +70°C	
Relay Normal Level	≥18Vdc	Module Size	125mm × 122mm × 51mm	
Relay Alarm Level	≤3Vdc	Module Weight	0.7Kg	