FATRI Smart Wind Power Solution

- Large Component Monitoring of the Transmission Chain
- Blade Monitoring
- Bolt Monitoring
- Tower Monitoring
- Oil Monitoring

Performance Overview

15000+
FATRI TAAS cloud real-time monitoring equipment/set

200+
Monitoring equipment type/species

2700+
Effective cases of equipment failure monitoring

500+
Number of patents and soft documents

10+
Industries involved

100+
Customers involved

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Blade Management System Blade Crack Monitoring Solution

Transmission chain measurement point distribution diagram
- Main bearing: radial vibration
- Low frequency accelerometer AYDV00-500-0-100
- Gearbox planetary stage: vertical vibration
- Mid-band accelerometer AYDV00-100-0-100
- Generator drive-end radial vibration
- Mid-band accelerometer AYDV00-100-0-100
- Gearbox input in-plane vibration
- Low frequency accelerometer AYDV00-500-0-100
- Shaft generator intermediate gearbox axial vibration
- Mid-band accelerometer AYDV00-100-0-100
- Power Generator: Radial Vibration
- Mid-band accelerometer AYDV00-100-0-100

Sensor
FATRI has advanced MEMS\ASIC\SoC and non-silicon-based chip design, manufacturing, packaging and testing capabilities. Based on these advanced core technologies, the sensors developed and manufactured by FATRI can be widely used in civil aviation, marine ships, petroleum and petrochemical industries, wind power generation, industrial intelligence, rail transit, health care, general testing and other fields.

Edge Computing
Focus on meeting the real-time acquisition and real-time processing requirements in the industrial field. Provide multi-channel, high-resolution, high-precision synchronous acquisition; excellent data and image processing capabilities; rich external interfaces to meet various functional expansion; flexible deployment of various AI artificial intelligence calculations and applications; both data acquisition and Edge computing function; it has the advantages of modularization and easy expansion in application; it can provide a sturdy high-level protection structure, which can adapt to industrial places with complex environments and harsh conditions, and realize rapid on-site business deployment.

Distribution map of the blade crack measurement points

Acoustic emission sensor JYDV01-050-005-101
Piezoelectric Accelerometer AYDV05-100-0-101
Data acquisition and edge computing modules (mounted on the hub)

CMS System Drive Chain Fault Monitoring Solution

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