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# NGC

## GearSight CMS



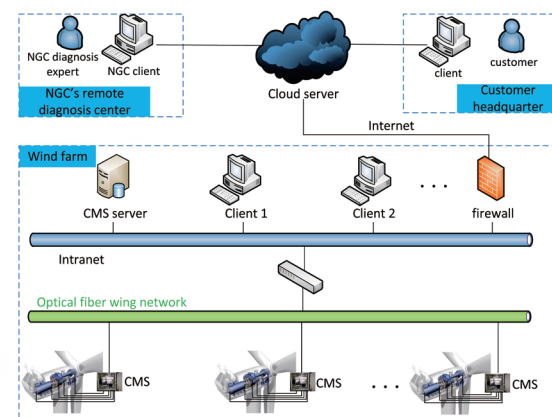


## Your gearbox health expert

As a leading global gearbox and drive technology solutions provider, NGC has extensive experience in the design, manufacture and maintenance of key transmission components and deeply understands how to interpret vibration, temperature and lubrication data.

With the help of GearSight CMS, a significant database of condition monitoring data is established for the customer. From the initial gearbox bench test, to the actual operating data collected on the wind farm, all condition monitoring data is acquired and gathered on NGC's cloud server for in-depth processing.

## How It Works



1 ~ 8 accelerometers 9 tachometer

## A small, light-colored metal safe with its door open, revealing internal wiring and components. A key lies on the surface in front of the safe.

- Compact design for convenient site installation
- (8) accelerometer inputs, (6) analog inputs and (4) digital inputs
- Ability to take simultaneous measurements from all channels
- Real time measurements & calculations with less than (1) second of delay (on hardware side only)
- Data buffering with USB memory to avoid data loss (up to 2GB) in the case of interrupted communication
- Accessible to SCADA systems for data exchange
- Ability to automatically set alarm values
- Domestic leading remote diagnostic center with highly trained team of diagnostic experts (10 experts with ISO 18436-2 CAT-II/CAT-III certificates)
- Database with vibration measurements from thousands of units to support accurate fault diagnosis
- NGC patented gearbox diagnostic algorithms included

- (4) analog inputs (0-20mA)
- (2) PT100 inputs
- Simultaneous sampling from (8) accelerometer inputs with a 51.2kHz sampling rate
- 24 bit ADC (no gain)
- Range of measurements from 0.001g to 25g
- Frequency of DC-10 kHz
- Signal to noise ratio of 96dB

- (2) ordinary digital inputs (0.05-1,000Hz)
- (2) modulated digital inputs (0-25Hz)
- Pulse counting

- (1) standard digital output

- Time waveform
- Number of spectral lines: 100-6,400
- Window function: Hanning
- Integration in frequency domain
- Acceleration enveloping analysis (ability to set filter)
- Data acquisition under non steady condition
- Dynamic alarm levels determined on multiple parameters
- Automatic detection of sensor & cable failure

- (2) RS232 ports
- (1) 100M RJ45 Ethernet port
- (1) USB port

- Size: 350 x 300 x 160mm
- Weight: 3kg
- Power consumption: 15W
- Operation temperature range: -40°C ~ +70°C
- Storage temperature range: -45°C ~ +85°C
- Allowable humidity: 95%, 40°C (non-condensing)
- Rated to IP65 / C4 corrosion resistance

- NB/T 31004-2011 Guidelines for Vibration Condition Monitoring and Diagnosis of Wind Turbine Generator (China's National Energy Administration)
- Guideline for the Certification of Condition Monitoring Systems for Wind Turbines (GL Edition: 2013)

- AC 100-240V 50/60Hz