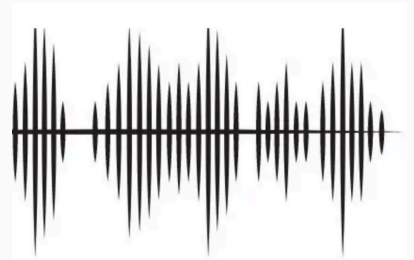# LYCA

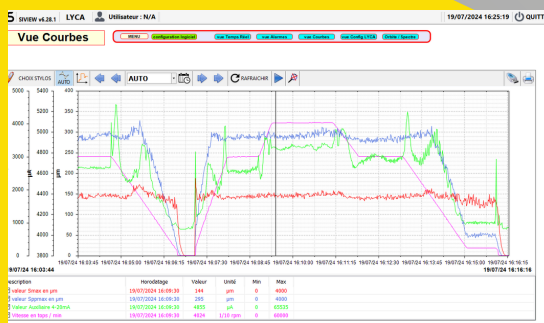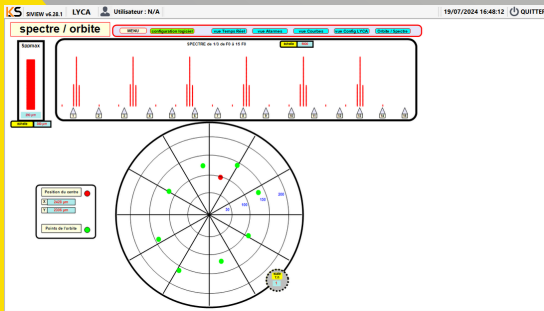## Very high electromagnetic immunity Vibration Protection System

Rotating machine protection

Suitable for 10 to 1500 rpm systems

Compliant with ISO 20816-5 standard

Digitally controlled

Standard proximity sensors

Radial and longitudinal measurement

Orbital and FFT analysis

EDF
requested specifications

Applications

Wind power turbine

Hydro-electric turbines

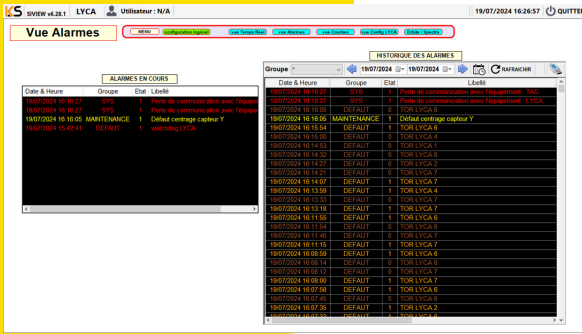Ship motors

Petrol and oil pumping sytems

Demanding automatism

Designed by **VORTIS**

Made in 🇫🇷

LYCA
Highlights

Very high electromagnetic immunity (designed for use in substations and generating plants)

Direct measurement of the vibration source

Very high electromagnetic immunity (designed for use in substations and generating plants)

Dynamics: 0 to 1500 RPM

Reliability: FFT and Orbit realtime analysis

Precision: < 1 µm

Low frequency from 1/3 time the fundamental rotation speed

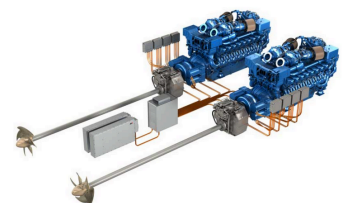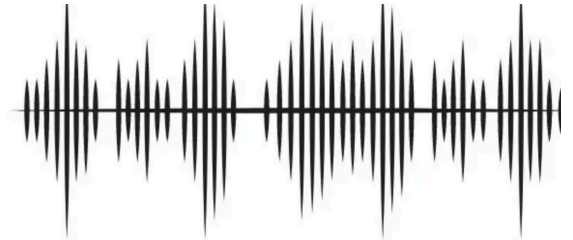Shaft shifting measurement (or Accelerometer bearing sensor)

Safety: interviewable internal autocontrols and Watch Dog

Stability of measurements

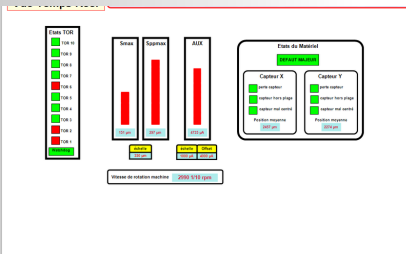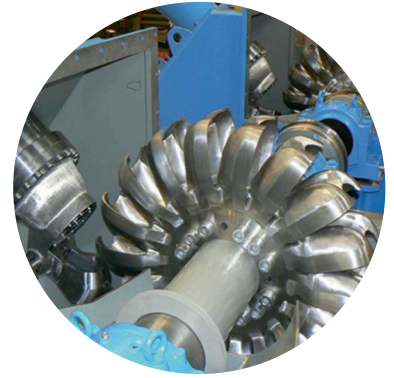Ease of use (configuration by web server)

Multiple outputs:10 static relays, 4-20 mA loop, 0-10V, Ethernet, RS485, ModBus

IP65 version

LYCA
Main features

Frequency range: 1 top/minute to 24,000 tops/minute

Digital outputs speed adjustment: 0.1 to 6553 RPM

Number of teeth on a wheel: adjustable from 1 to 200 teeth per turn

Cyclic ratio of an acceptable tooth: from 1 to 99% (detection duration/ PAS duration)

Failure correction Distribution of teeth: jitter up to +-25% of the average step

Intrinsic measurement precision (throughout the range): < 0.001% FS

Long-term drift: < 3ppm/year

Angle measurement (with 2 sensors): Resolution: 1/3600th of the step between two teeth

Real-time quality indicators: sensor defect, tooth, noise, electric, communication…

Outputs: 10 static relays, 4-20 mA, 0-10V, Ethernet IP, Modbus RTU

IP65 version