

SENSONICS

Looking for the Ultimate
Machinery Protection System?

...**Sentry G3** ticks all the right boxes



What type of system would you prefer to protect your critical rotating plant?

I want a fully programmable system



I want one module type for all measurements



I want a sensor interface that's totally flexible



I want a system that utilises individual processors per channel which are independent from other hardware



I want a colour LCD display providing alarm history plus an FTT display of the dynamic channel



I want an API 670 compliant system



Choose the system with the best functions and features...



Sentry G3 from Sensonics

The high-performance sensor conditioning and monitoring system

The need to protect your critical plant and equipment

Continuous protection and monitoring is an essential requirement for critical rotating plant in many areas of industry. Whether you are generating power, pumping essential fluids or driving process equipment – it's vital to monitor the machine dynamic behaviour through the measurement of vibration, speed, expansion and temperature, in addition to other parameters.

For over 40 years Sensonics has been at the forefront in developing the most sophisticated condition monitoring systems and products which help industry to monitor and protect critical rotating plant.

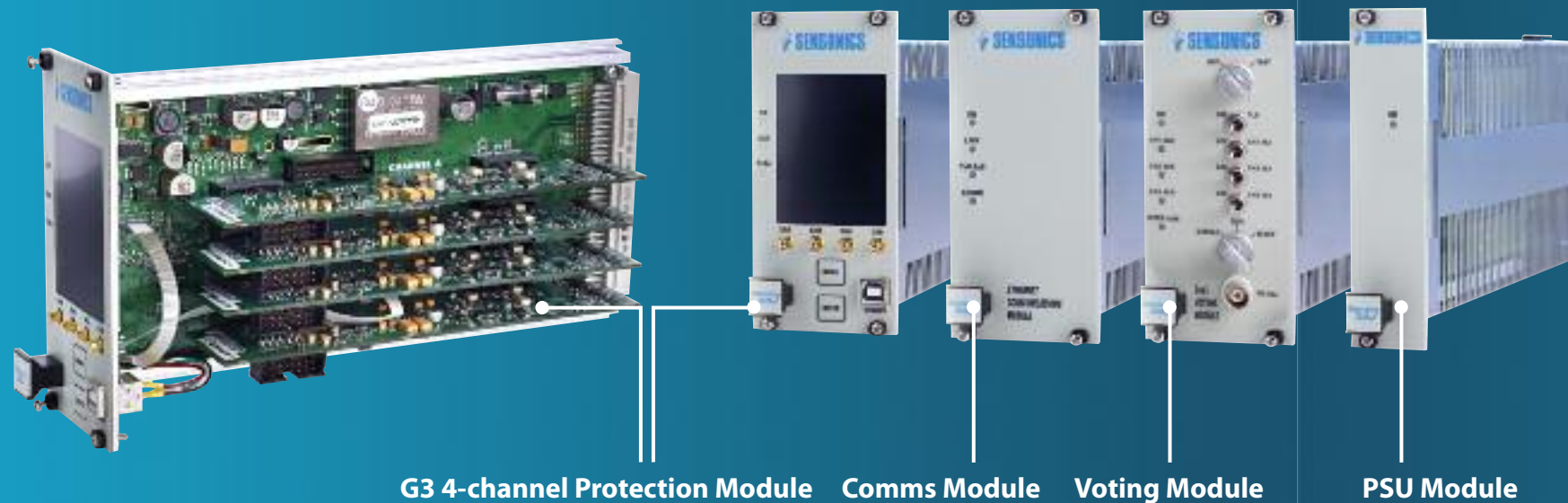
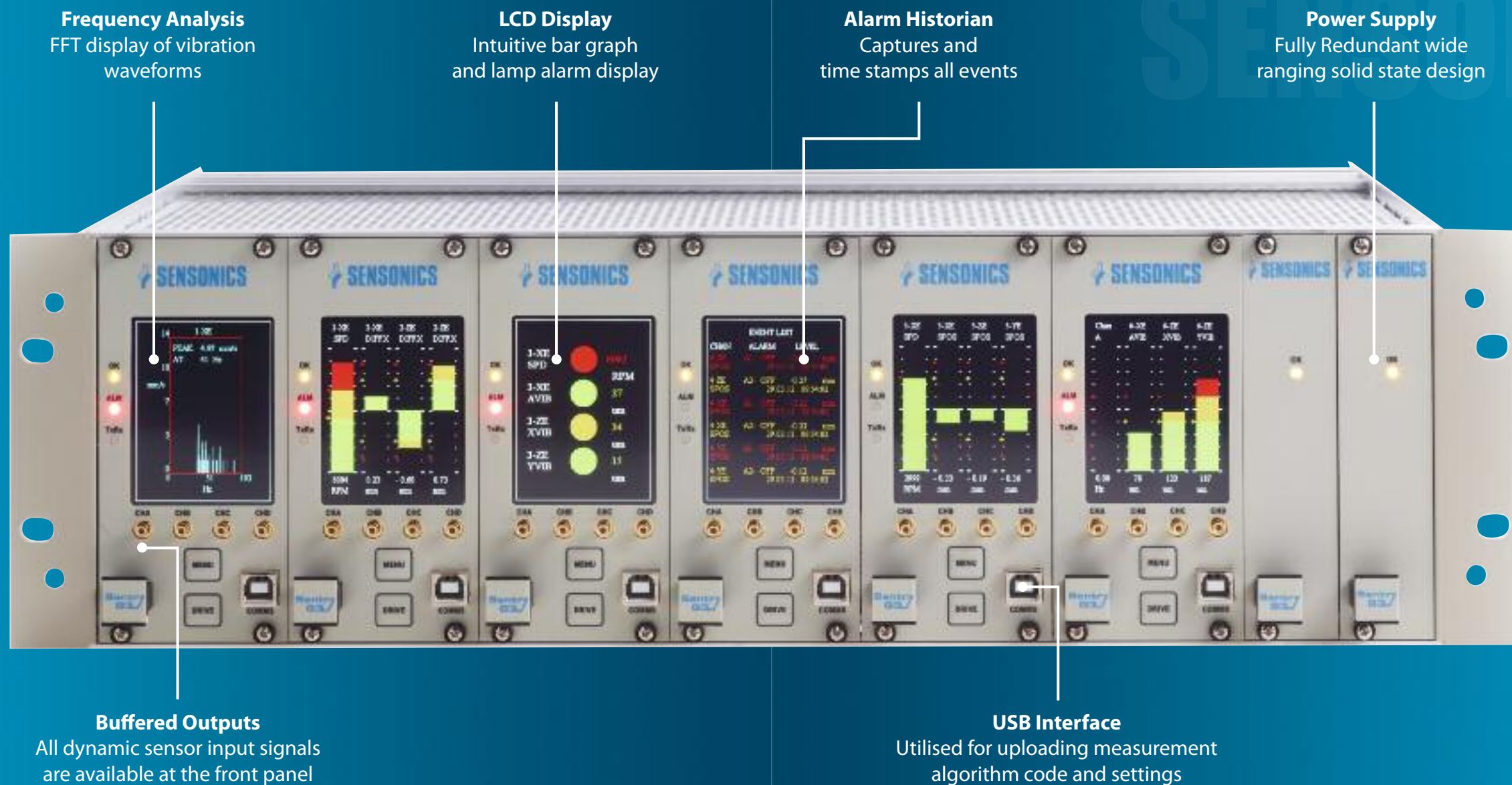
A proven track record

From its Hertfordshire, UK base Sensonics is proud of its reputation as a leading manufacturer of condition monitoring systems. This is underlined by the ongoing success of the innovative **Sentry G3** system which represents the third generation of the Sentry concept – evolved from 40 years of real world applications.

The **Sentry G3** Machinery Protection Concept is a rack mounted, high performance sensor conditioning and monitoring system. It provides a universal platform for the interfacing of various sensor types to meet with the demanding application of rotating machine protection.

Take a closer look at the features and benefits...





Features and Benefits

Sentry G3 is designed so that each plug-in module provides up to four measurement channels. These can be independently programmed to provide continuous monitoring and protection facilities across a broad spectrum of sensor regimes (including vibration, expansion, temperature, speed and position).

Independent Alarms - High Integrity

Utilising the latest DSP technology, once a channel is configured and running, the resulting alarm relay and analogue output facilities remain independent from the other module functionality. This results in a scalable, high integrity configuration suitable for IEC61508 applications.

Immediate Viewing - Easy Access

Each module is provided with an intuitive colour LCD display and menu drive facility to provide immediate viewing access to the machine parameters. Several modes of display are available including bar graph, FFT and an alarm historian.

Power Supply
Universal AC input or
direct +24 volt DC

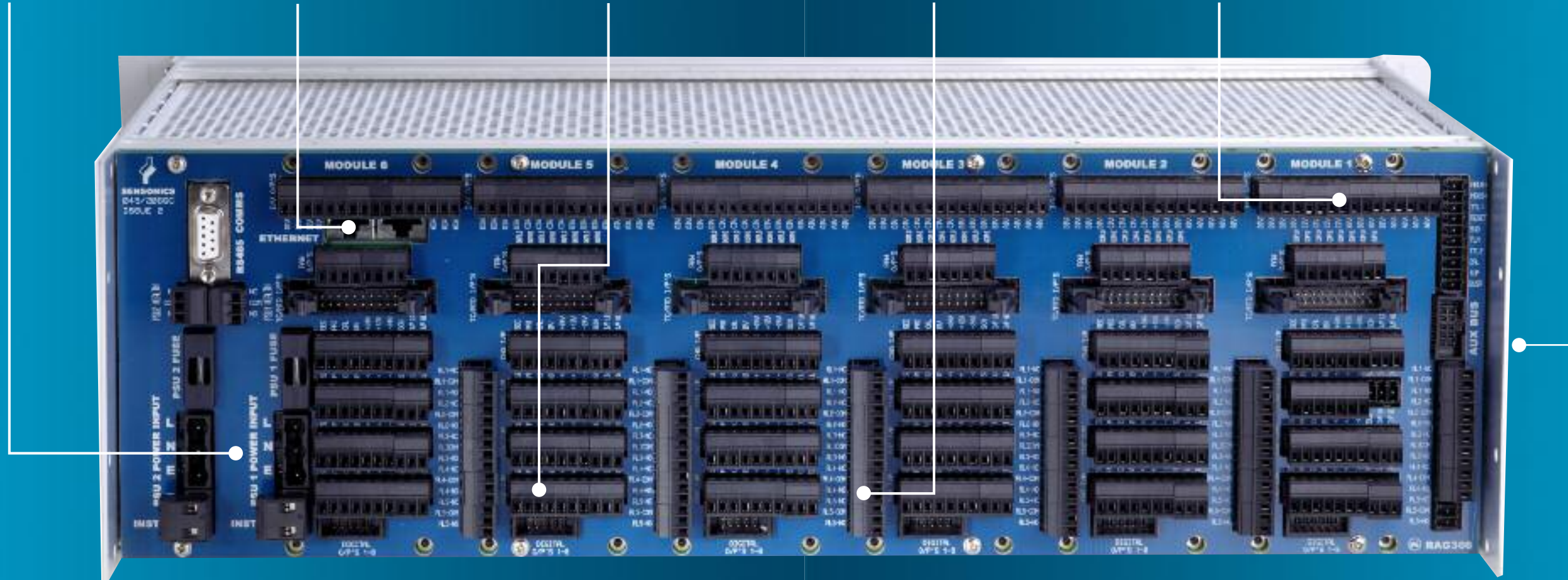
Comms Interface
Modbus RS485 and
Ethernet Interfaces for
connection to plant systems

Sensor Inputs
Fully configurable interface
with +24V, -24V, +12V
and IEPE options

Alarm Relays
Up to 3 relays per channel
with voting logic

Analog Outputs
Fully configurable 4-20mA
and voltage outputs per channel

19" Racking System
Industry Standard 3U rack catering
for up to 24 channels and 2 PSU's



Machine Measurement Modes

- Absolute and Relative Vibration
- Shaft and Valve Position
- Speed, Phase and Reverse Rotation
- Differential and Casing Expansion
- Temperature and Process

Turbine Specialist Measurement Modes

- Shaft Eccentricity
- Differential Ramp Expansion
- Rotor / Stator Air Gap

Flexible Configuration

- Universal Module for all Measurements
- Field Upgradeable
- Hot Swappable Modules
- LPF, HPF, Tracking and Notch Filters
- Programmable Warning and Danger Alarms
- Programmable Transducer Supply
- Dual Redundant Power Supply
- Gateway Communication Module
- USB Programmable

Overspeed Protection System

- High Integrity 2oo3 Voting
- IEC61508 SIL-3
- Individual Channel Trip Testing
- Signal Injection Capability
- Reaction time <10ms
- Dual Redundant Power Supplies
- Fully Independent Modules



SENSONICS

Choose the best Protection System for your Critical Rotating Plant



Sentry G3 the high-performance sensor conditioning and monitoring system

Applications

- Steam Turbines
- Industrial Gas Turbines
- Hydro Electric Machines
- Electric Motors and Generators
- Centrifugal Pumps and Compressors
- Axial and Reciprocating Compressors
- Horizontal and Vertical Pumps
- Turboexpanders
- Fans and Blowers
- Centrifuges



Office: Jl. Radin Inten II No 61B - Duren Sawit Jakarta Timur
Phone: 021-2956-3045 | Whatsapp: 0823-1234-7066
Email: sales@testindo.com | sales@vibrasindo.com
Website: www.testindo.co.id | www.vibrasindo.co.id



MADE IN UNITED KINGDOM
PROTECTING WORLDWIDE

