

SENSONICS

Intelligent Machinery Protection

Bearing and Shaft Vibration

Shaft and Thrust Position

Speed and Tachometer

DN26 G3 from Sensonics...
...the scalable and compact solution



The need to protect your critical plant equipment

Continuous protection and monitoring is an essential requirement for critical rotating plant across industry. Whether you are generating power, pumping essential fluids or driving process equipment – it is vital to monitor machinery dynamic behaviour and protect your process from equipment downtime.

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

The DN26 G3 protection monitor has evolved from the highly successful DN26 series, now offering a single hardware platform for all your vibration, position and speed measurement requirements in a compact Din-Rail mount solution.



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Protecting your Critical Rotating Plant

The DN26 G3 Machine Protection Monitor is a high performance fully programmable signal conditioning unit capable of monitoring 2 Channels of Absolute Vibration, Shaft Vibration or Shaft Position. An additional third channel is available as standard for measuring speed or for use as a phase reference.

The sensor interface is programmable to accept IEPE type accelerometers / velometers, proximity probes (API 670 std), and active / passive speed probes. All sensor signals are available via a buffered interface for further detailed signal analysis.

All three measurement channels are available via a 4-20mA interface. Three alarm relays are available as standard with the option to expand to a maximum of seven. One alarm relay dedicated to module and sensor integrity, while the remaining relays are programmable across a range of selectable alarm criteria.

The internal web server provides for easy module configuration and IP network connectivity for remote access to the module facilities and data.

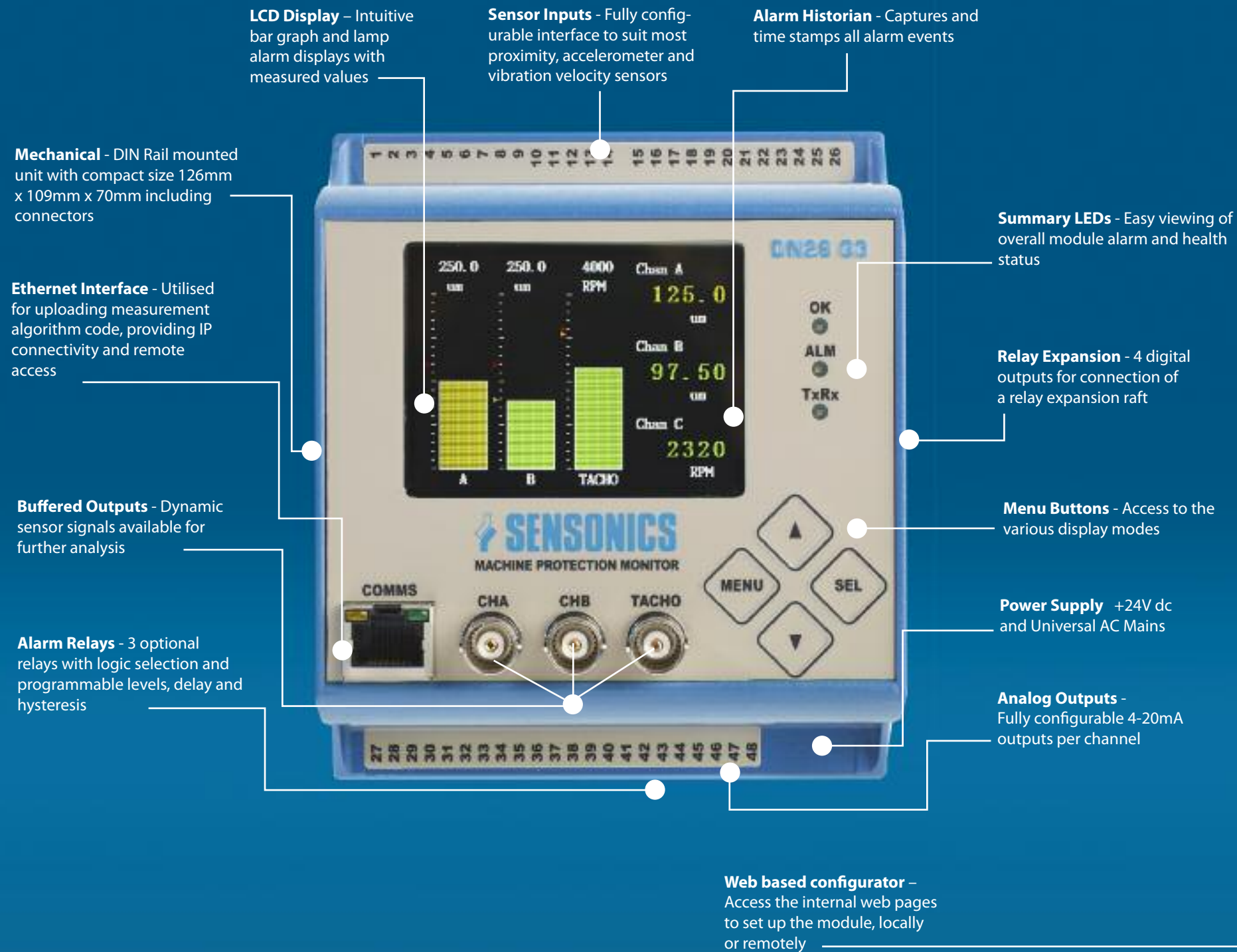
Each DN26 G3 is provided with an intuitive colour LCD display and menu drive facility to provide immediate viewing and access to the measured values and alarm status.

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



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DN26 G3 Features and benefits



Machine Measurement Modes

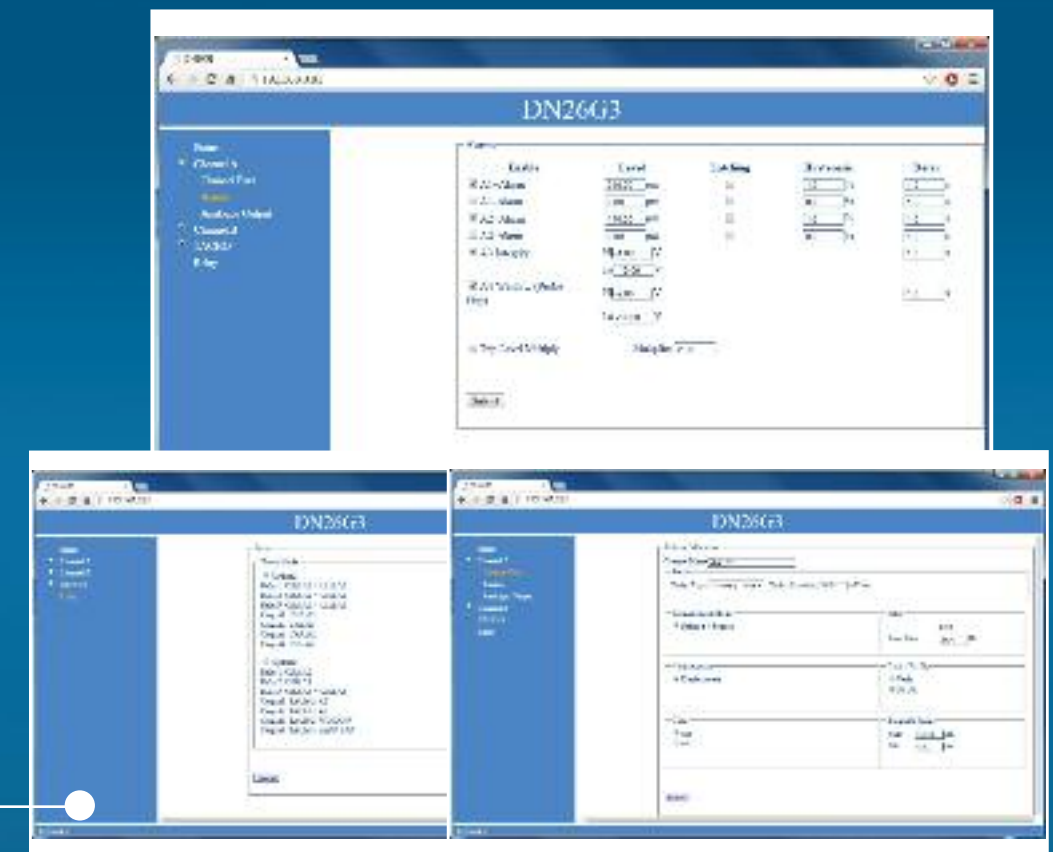
- Absolute and Relative Vibration
- Shaft Position
- Dedicated Speed & Phase Channel

Applications

- Small to Medium Industrial Machines
- Fans, Pumps, Motors, Centrifuges and Turbines
- Shutdown Protection and Condition Monitoring
- Ideal for OEM integration

Flexible Configuration

- Universal Module for all measurement options
- Field Upgradeable
- Programmable Warning and Danger Alarms
- Programmable Transducer Supply
- Universal Mains and +24Vdc power options
- Ethernet Communications
- Internal web server set up
- Compact size and scalable



DN26 G3 Measurement Specifications

Bearing Vibration Measurements

Acceleration: 0-100.0g, $\pm 1.0\%$ (1Hz to 3kHz)
Velocity: 0-100mm/s, $\pm 1.0\%$ (1Hz to 3kHz)
Displacement: 0 – 1000um, $\pm 1.0\%$ (5Hz to 1kHz)
Low Pass Filter: Programmable, 100Hz to 3kHz, >24dB / Octave
High Pass Filter: Programmable, 1Hz to 100Hz, >24dB / Octave
Transducer: 2/3 wire, IEPE programmable

Shaft Position and Vibration Measurements

Shaft Vibration: 0 – 1000um pk-pk, $\pm 1.0\%$
Low Pass Filter: Programmable, 100Hz to 3kHz, >24dB / Octave
Shaft Position: ± 1.0 mm std plus options
Transducer: Eddy Current / Proximity Probe
 3.94mV/um and 7.87mV/um
 3/4 – wire system, -24V @ 40mA

Speed Measurements

Frequency Range: 0.02Hz to 20kHz
Accuracy: better than $\pm 0.1\%$ of reading
Resolution: better than $\pm 0.1\%$ of full scale
Sensitivity: 0.1V – 20.0V pk-pk
Transducer Options:
 Eddy Current / Proximity
 Active / Passive Magnetic
 TTL

Protect your critical rotating plant...

...with the intelligent option - DN26 G3 from Sensonics

The scalable, compact solution for Vibration, Position and Speed Monitoring.



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
- Turbo Expanders
- Fans and Blowers
- Centrifuges



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PROTECTING WORLDWIDE

