

# 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 Thrust Position. An additional third channel is available as standard for measuring speed or for use as a phase reference. The Din rail mountable module is designed specifically for machine protection applications, offering a compact and cost effective solution with a range of measurement algorithms.

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 to offer the option of further detailed signal analysis.

Three alarm relays are available, one relay dedicated to indicate module and sensor integrity, the other two relays are fully programmable across the alarm criteria selected. All three input channels measured values are available via a 4-20mA interface.

Each module is provided with an intuitive colour LCD display and menu drive facility to provide immediate viewing and access to the machine parameters.

# DN26 G3 Machinery Protection Monitor



## Machine Measurement Modes

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

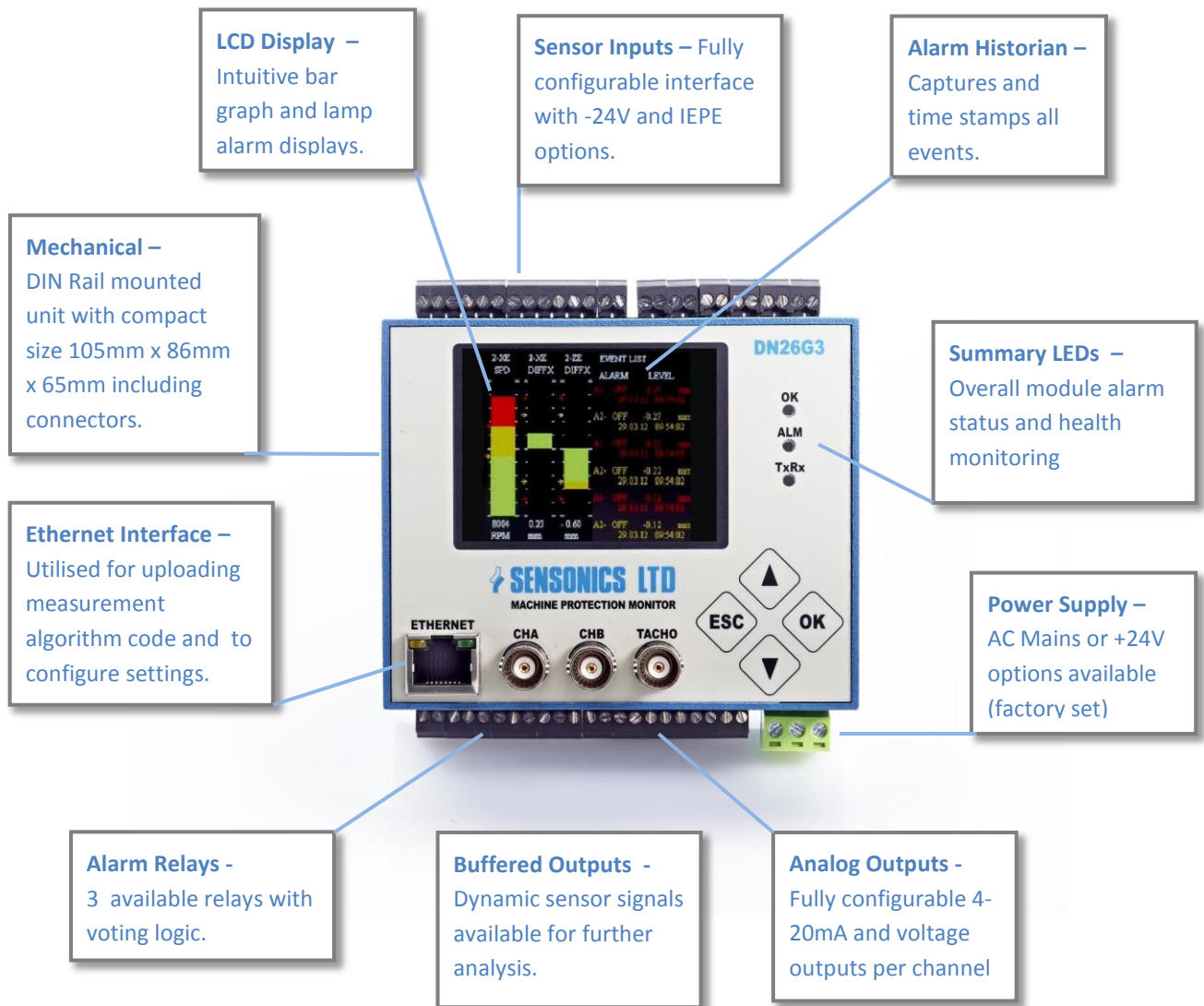
## Flexible Configuration

- Universal module for all measurements
- Field upgradable
- Programmable Warning and Danger Alarms
- Programmable Transducer Supply
- Mains and +24V power supply options
- Ethernet Communications
- Internal webserver set up
- Fully programmable from front panel
- Small compact size and scalable

## Applications

- Small to Medium Industrial Machines
- Fans, Pumps, Motors, Centrifuges and Turbines
- IEC 61508 safety systems
- Shutdown Protection and Condition Monitoring

# DN26 G3 Features and Benefits



## Bearing Vibration Measurements

**Acceleration**  
0 – 100.0g, ±1.0% typ  
(1Hz to 10kHz as standard)

**Velocity**  
0 – 100mm/s, ±1.0% typ  
(5Hz to 1kHz as standard)

**Displacement**  
0 – 1000um, ±1.0% typ  
(5Hz to 1kHz Velocity transducer)  
(10Hz to 300Hz Accelerometer)

**Low Pass Filter**  
Programmable 3dB, 100Hz to 10kHz  
Roll off >24dB / Octave

**High Pass**  
Programmable 3dB, 0.1Hz to 100Hz  
Roll off 24dB / Octave

## Shaft Position and Vibration Measurements

**Displacement**  
Vibration: 0 – 1000um, ±1.0% typ  
Position: ±1.0mm std plus custom

**Low Pass Filter**  
Programmable 3dB, 100Hz to 10kHz  
Roll off >24dB / Octave

**High Pass**  
Fixed at 0.09Hz

**Transducer**  
Eddy Current / Proximity Probe  
Sensitivity Range Fixed Options  
3.94mV/um & 7.84mV/um  
4 – wire system-24V @ 40mA max  
Integrity window -19.0V to -1.0V

## Speed Measurements

Frequency Range 0.02Hz to 20kHz  
Accuracy < ±0.1% of reading  
Resolution < ±0.1% of full scale  
Dynamic range 100mV – 20V pk-pk

## Transducer Configuration

Passive Magnetic Probe  
Active Magnetic Probe  
TTL input