

PREDICTIVE
MAINTENANCE
SYSTEMS

PROTECTING
YOUR
INVESTMENT

SENSONICS

Aegis
Machine Condition
Monitoring System

Aegis

Machine Condition
Monitoring System



Low Cost, High Integrity
Signal Conditioning

Vibration Acceleration Displacement
Velocity Rotational Speed Temperature
Thrust Wear Axial Position
Rolling Element Bearing Condition
Expansion Lubrication Failure
Process Variables



The Aegis monitoring system provides continuous monitoring without the need for operator intervention, it's 'Fit and Forget' design is ideal for machinery protection without costly false alarms.



Reduce Maintenance Costs and Increase Plant Productivity

MO9600 Series Monitoring System is a modular lost signal conditioning system which is primarily intended for plant Condition Monitoring functions. It is ideally suited to applications where continuous monitoring of machinery is required to prevent deteriorating condition causing expensive collateral damage and eventually complete breakdown.

Where periodic Condition Monitoring is performed by the use of off line portable data collectors MO9600 Series can provide economical, continuous protection for plant from rapidly developing faults that can occur between surveys.

Modular Construction

Each Monitor fits either a 19" or 10.5" standard rack with a common display module that can show the current measured level of any channel and it's alarm settings.

- Monitors vibration, temperature, shaft speed, axial displacement, thrust and element bearing condition
- Suitable for use on all types of rotating machines - motors, pumps, fans, turbines, compressors, mills etc.

System features

- LED high visibility numeric display
- Front panel LED annunciation of alarms
- Calibration check facility
- Alarm attenuation facility (for run-up purposes)
- Remote alarm reset facility
- Alarms can be normally open or closed, latching or non-latching with normally energised or de-energised relays.

Each Monitor Module Features

- Dual level, adjustable alarms, suitable for warning or trip functions
- Analogue outputs for trending or recording purposes (typically 4-20mA), Isolation optional
- System integrity alarm
- Individual power supply $\pm 10/240V$ AC or 24Vdc
- Buffered raw transducer signal presented on front panel BNC for analysis purposes

The Aegis system has been designed and extensively tested to provide effective reliable monitoring without the generation of false alarms or the need for ongoing operator intervention.

TY SIGNAL CONDITIONING



MO9601 Vibration Monitor Module

- Accepts inputs from accelerometers, velocity transducers or eddy current probes
- Adjustable alarms (alert and trip) with or without time delays
- Integrity alarm
- Analogue outputs - range adjustable on site
- Band pass filters - frequencies field selectable
- Monitors in acceleration, velocity or displacement

For more information see Data Sheet DS1112



MO9602 Rolling Element Bearing Monitor

- Accepts inputs from bearing damage transducer
- Adjustable level alarms
- Output proportional to bearing condition, independent of speed, load and type
- Warns of bearing lubrication failure
- Analogue outputs

For more information see Data Sheet DS1117



MO9603 Thrust (Axial Position) Monitor Module

- Accepts inputs from eddy current probe
- Adjustable alarms (alert and trip)
- Field selectable displacement range with zero adjustment in situ.
- Analogue outputs

For more information see Data Sheet DS1116



MO9605 Temperature Monitor Module

- Accepts inputs from RTDs
- Adjustable alarms (alert and trip)
- Field selectable temperature range (Celsius or Fahrenheit)
- Analogue outputs

For more information see Data Sheet DS1114



MO9608 Speed Monitor Module

- Accepts inputs from many transducer types
- Adjustable alarms (suitable for overspeed trip)
- Field selectable speed range
- Analogue outputs
- Automatic trigger threshold

For more information see Data Sheet DS1115



MO9609 LVDT Monitor Module

- Accepts inputs from any LVDT
- Adjustable alarms (alert and trip)
- Field selectable displacement range
- Zero and gain adjustment
- Analogue outputs

For more information see Data Sheet DS1113



MO 9602



MO 9605



MO 9609

Enclosures



Sensonics can also supply enclosures or housings for the equipment racks.

These can be:

- Floor standing, wall mounted or carrying case
- IP55 or IP65 sealed
- With glazed lockable front door
- Fully wired with terminals or to accept signal cables directly onto rack terminals.

Equipment Racks

- Standard 19" rack holds 12 Monitor Modules and 1 display or 14 monitors.
- 10.5" rack holds 5 Monitor Modules and 1 display or 7 monitors.
- Can be supplied with panel mounting kit.
- Connections made by detachable terminals on rear of rack.

MO9699 Display Module



MO 9699

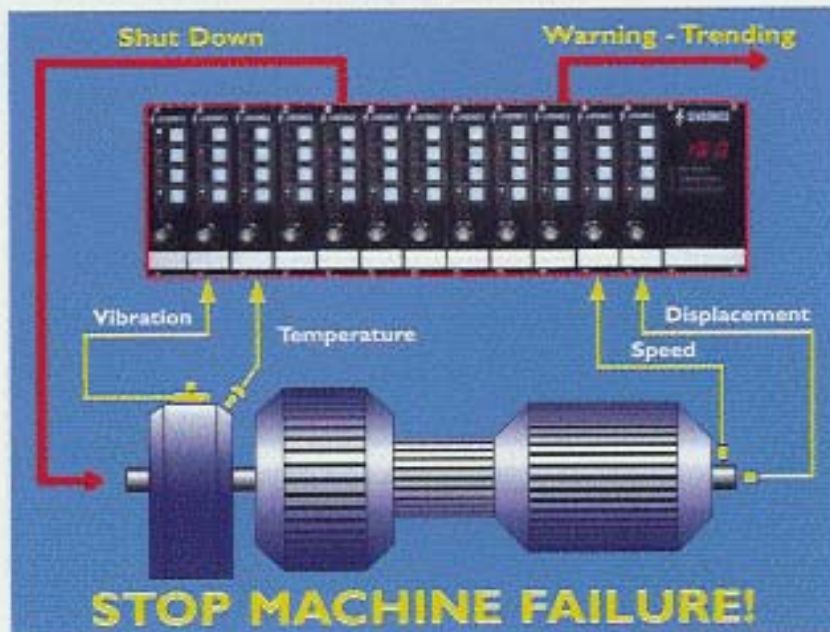
High visibility LED display; choose 3 1/2 or 4 1/2 digits with calibration check facility and remote alarm attenuation facility.

PREDICTIVE MAINTENANCE SYSTEMS

KEEPING
INDUSTRY
TURNING



Aegis Machine Condition Monitoring System



Other Products in the Sensonics Range

- Velocity Transducers
- Eddy Current Probes
- LVDT's & RVDT's
- Accelerometers
- On line vibration monitoring
- Seismic Sensors

Sensonics Can Also Undertake

- Feasibility studies
- Installation and commissioning (ELECTRICIAN REQUIRED)
- System integration
- Training

Due to Sensonics policy of constant improvement, designs may be subject to alteration without notice.

To order or request a sample or further information

Call Sensonics NOW on:

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or email on: sales@sensonics.co.uk

www.sensonics.co.uk

Quick Delivery - many items held in stock

Technical Assistance - always available without obligation

Free Aegis System Buyers Guide

Extended Warranty - available on all Sensonics products

Custom Design Service - if you don't see what you want here

In a commercial environment of increasingly stringent regulations or processes, tighter budget constraints combined with increased quality controls, closer government scrutiny of operations and ever-more fierce competition from many corners of the globe, there has never been a more appropriate time for industry to adopt systems, procedures and policies that ensure the competitive advantage as well as conformity to the wide array of international standards.

Sensonics predictive maintenance technology should be a vital part of your company's strategy to enable your operations to meet the challenges of the next decade - and beyond.



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If you would like to know more about any application of the Aegis system please do not hesitate to call our technical sales department, who will be delighted to offer advice without charge.