

**PREDICTIVE
MAINTENANCE
SYSTEMS**

**PROTECTING
YOUR
INVESTMENT**

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

**Aegis
Machine Condition
Monitoring System**



SENSONICS

LOW COST, HIGH INTEGRITY SIGNAL CONDITIONING

PREDICTIVE
MAINTENANCE
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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 110/240v AC or 24 Vdc

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.



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

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.

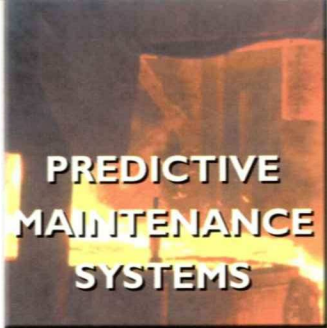
Connections made by detachable terminals on rear of rack

MO9699 Display Module

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



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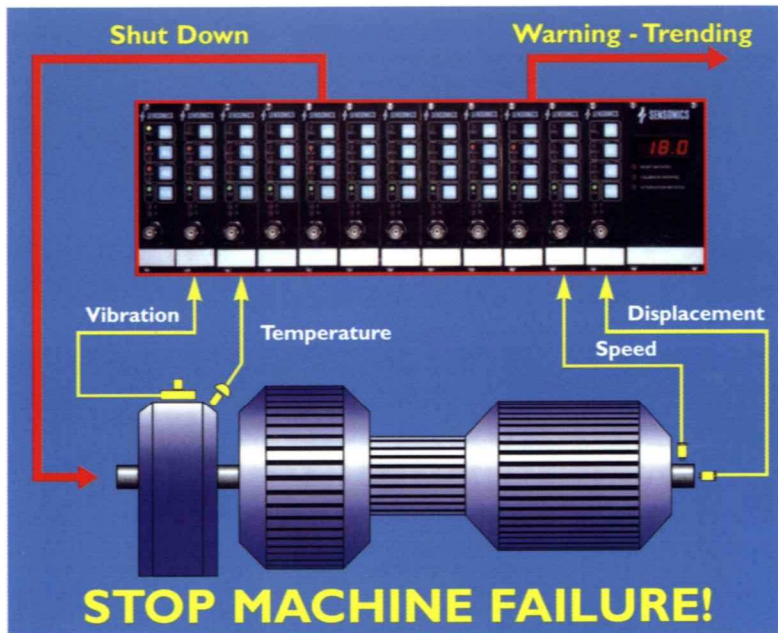


**PREDICTIVE
MAINTENANCE
SYSTEMS**

**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 (turnkey projects)
- 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 FAX us on: +44 (0) 1442 876477
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 polices 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 are at all unsure 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 obligation.