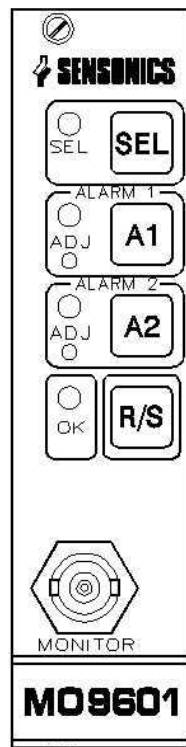




## AEGIS SYSTEM

### MO9601 - VIBRATION MONITORING MODULE



- \* ACCELEROMETER, VELOCITY TRANSDUCER OR VELOMETER INPUT.
- \* FULLY ADJUSTABLE DUAL LEVEL ALARMS.
- \* FIELD SELECTABLE MONITORING MODE (A, V or D).
- \* IDEAL FOR EARLY WARNING OF BEARING FAILURE.
- \* RECORDER OUTPUTS AVAILABLE.
- \* SUITABLE FOR MACHINE TRIP APPLICATIONS.
- \* TRANSDUCER INTEGRITY ALARM.
- \* UP TO 14 MODULES PER 19 INCH RACK (OR 12 WITH A COMMON DISPLAY).

The M9601 Vibration monitor module has been designed to provide high integrity, cost effective protection for rotating machinery of all types including turbines, motors, fans compressors etc.

It is ideally suited to applications where constant surveillance is required to protect machinery against sudden deterioration in condition and avoid costly breakdowns.

The module uses only the highest quality components and has been extensively type tested to ensure effective monitoring and prevent spurious alarms.

Up to 12 modules can fit into a standard 19" rack (3U high) with a single shared LED digital display module. Further modules in second and third racks can utilize the same display module by simple connection of the racks. The level of any particular channel is brought up on the display in engineering units, by depressing the 'select' button on the front of each module. An Amber LED illuminates next to the button to indicate which module is currently being displayed. Alarm levels are displayed by pressing and holding the A1 or A2 buttons on the selected module.

Each module has its own PSU for increased system integrity, a front panel BNC presenting the transducer buffered raw signal and a calibration check facility.

## MO9601 – VIBRATION MONITORING MODULE

Three off volt free change over relays are provided for each module, A1 and A2 level alarms, and A3 transducer/PSU integrity. The status of A1 and A2 is displayed on the front panel by red LED's illuminating when the alarms are initiated. The A3 alarm is announced by a normally lit green LED in the front panel, this transducer/PSU integrity alarm is able to inhibit A1 and A2 relays when in the Alarm State. A time delay of up to 5 seconds can be applied to alarms and is strongly recommended when the units are used for trip purposes.

The monitoring mode, (A, V or D and peak or RMS) scaling and filters can be field set by the positioning of on board switches.

One current and one voltage output are available for recording/analysis purposes at the detachable terminal blocks at the rear of the rack.

### **TECHNICAL SPECIFICATION**

<u>Input</u>	Any Accelerometer, Velometer Transducer or Velometer. 2,3 or 4 wire devices. Sensitivity – usually 100mV/g, others acceptable.
<u>Monitoring Mode</u>	Field selectable Acceleration Velocity Or Displacement In either Peak or RMS values.
<u>Range</u>	Field selectable 1–50g (Acceleration) 5 ranges 10–50mm/s (Velocity) 6 ranges 125–500 µm (Displacement) 3 ranges Imperial ranges available if required.
<u>Outputs</u>	1X Current (4-20mA, or 0-10mA) others available. 1X Voltage (0-1V, 0-10V, 1-5V or Buffered Raw Signal) Available on detachable block connectors at the rear of the rack. Also Buffered Raw Transducer Signal available on front panel BNC.
<u>Alarms</u>	A1 Field adjustable level alarms (positive or negative going) A2 Field adjustable level alarms (positive or negative going) A1 & A2 Field adjustable to be; Normally Open or Closed Latching or Non-latching Normally Energised or De-energised. A3 Transducer Integrity alarm with selectable automatic defeat function of A1 & A2.  All alarms have front panel LED annunciation, are rated to 0.5A @ 110VAC and can have delays of up to 5 seconds.
<u>Filters</u>	Hi and Lo pass filters 12dB/Octave Field selectable between 5Hz and 10kHz.

DS1112



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