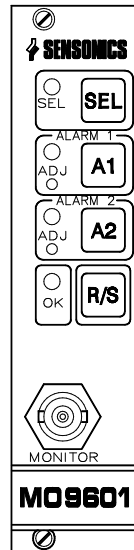




AEGIS SYSTEM MO9601E - ECCENTRICITY MODULE



- EDDY CURRENT PROBE SYSTEM INPUT.
- FULLY ADJUSTABLE DUAL LEVEL ALARMS.
- 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 Eccentricity module has been designed to provide high integrity, cost effective protection for large rotating machinery eg. Turbines.

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.

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MO9601 – ECCENTRICITY 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 annunciated 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 is vibration in terms of pk-pk displacement, as standard in μm but measurements in thou. Inch or millimeters is an option.

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

Input Any Sensonics eddy current probe although $8\text{mV}/\mu\text{m}$ ($200\text{mV}/\text{Thou}$) is standard. Other manufacturers probes can normally be used but our sales engineers will confirm.

Monitoring Mode Field selectable Displacement pk-pk

Range Field selectable 0-500 μm pk-pk
0-20 millimetres (3 ranges)
Thou by special request.

Outputs 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.

Alarms 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.

Filters Hi and Lo pass filters 12dB/Octave
Field selectable between 5Hz and 10kHz.

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