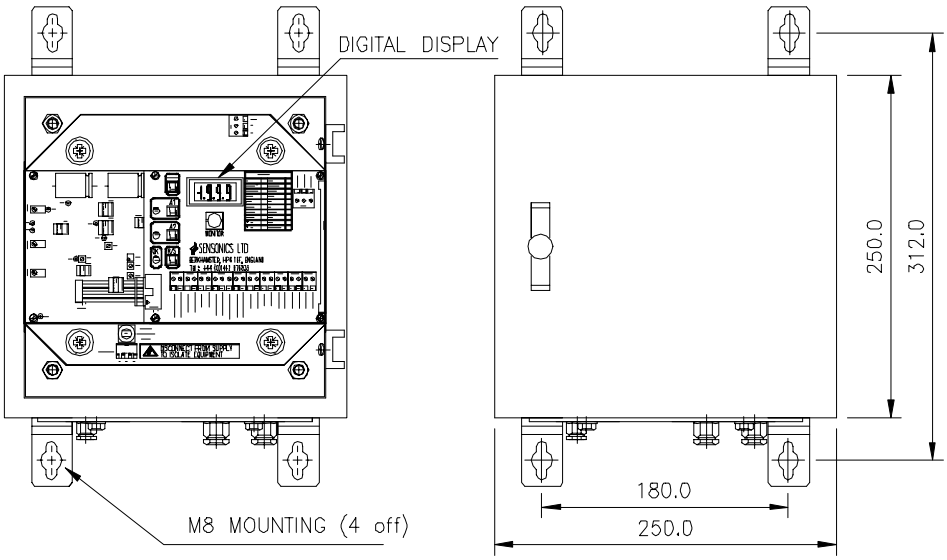
AEGIS SYSTEM

ME9601 – VIBRATION MONITORING ENCLOSURE



- 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.
- MODULE SELF CONTAINED IN AN IP.66 WALL MOUNTING ENCLOSURE WITH INTEGRAL DISPLAY.

The ME9601 Vibration monitor 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 monitor uses only the highest quality components and has been extensively type tested to ensure effective monitoring and prevent spurious alarms.

DS1120

Omni Instruments
Measurement > Control > Data Acquisition

UK / Europe Office
Tel: +44 (0)8700 434040
Fax: +44 (0)8700 434045
info@omniinstruments.co.uk
www.omniinstruments.co.uk

Australia / Asia Pacific Office
Tel +61 (0)282 442 363
Fax +61 (0)294 751 278
info@omniinstruments.com.au
www.omniinstruments.com.au

USA / Canada Office
Tel +1-866-849-3441
Fax +1-866-628-8055
info@omniinstruments.net
www.omniinstruments.net

ME9601 – VIBRATION MONITORING ENCLOSURE

The monitor is housed in an IP66 wall mounted enclosure. The level of any particular channel is brought up on the internal display in engineering units, by depressing the 'level' button after initial system power-up. Alarm levels are displayed by pressing and holding the A1 or A2 buttons.

Each monitor has its own PSU for increased system integrity, an internal BNC presenting the transducer buffered raw signal and a calibration check facility.

Three off volt free change over relays are provided for each monitor, A1 and A2 level alarms, and A3 transducer/PSU integrity. The status of A1 and A2 are indicated on the display panel by red LED's illuminating when the alarms are initiated. The A3 alarm is annunciated by a normally lit green LED in the display 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 terminal blocks on the display panel.

TECHNICAL SPECIFICATION

Input	Any Accelerometer, Velometer Transducer or Velometer. 2,3 or 4 wire devices. Sensitivity – usually 100mV/g, others acceptable.	
Monitoring Mode	Field selectable	Acceleration Velocity Or Displacement In either Peak or RMS values.
Range	Field selectable	1–50g (Acceleration) 5 ranges 10–50mm/s (Velocity) 6 ranges 125–500 µm (Displacement) 3 ranges Imperial ranges available if required.
Outputs	1X Current (4-20mA, or 0-10mA) others available. 1X Voltage (0-1V, 0-10V, 1-5V or Buffered Raw Signal) Available at the terminal blocks on the display panel. Also Buffered Raw Transducer Signal available on display 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 display panel LED annunciation, and have relays 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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