

Viber M2 is a versatile, reliable and easy to use machine protector unit. M2 can give an alarm or stop the machine if failure is imminent. The M2 sends constantly machine vibration information as well as transducer and cable condition to the PLC.

**Each channel has:**

- Three measuring ranges.
- Two independent alarm levels with manual or auto reset
- Two frequency ranges
- Two ranges for the current output proportional to the vibration level 0- 20 or 4- 20 mA, suitable for connection to a PLC
- Monitoring of transducer and cable failure
- Analysis signal on BNC and terminal output

**Common for both channels:**

- Two independent change over relays
- Two independent time delays of relay function
- One changeover relay for transducer or cable failure

**Description**

The transducer signal is compensated in the input amplifier to correct signal level and selected frequency range. This signal is available at the front panel BNC connector and on terminals for further analysis.

When accelerometer or velocity transducers are used the analysis, alarm and mA signals are always measured in velocity. This signal can be amplified in 3 selectable ranges 0-10, 0-20 and 0-100 mm/s. Other ranges are optional upon order of the product.

The temperature range is pre set to 0-120 °C (32-248°F).

The displacement range can be set to 0-100, 0-200 or 0-1000 µm.

When the pre set signal levels are reached a LED lamp are lit. If the levels stays higher during the selected delay time (0-90 s) the relay is activated. The M2 has manual or automatic resetting of the alarm status.

The signal level is converted to a corresponding current output selectable between 0-20mA and

4-20mA. This signal is available on terminals for connection to other instruments or data logger. The current output is disabled in case of transducer or cable failure

**Enclosure**

Sealed (IP65), PVC box with transparent lid for overview of vibration and/or temperature levels, alarm settings and alarm status

**Viber M2** fulfils the following standards:

EN50081-1, EN55011 (B), EN50082-2, EN61000-4-2,-3,-4,-5



## **Channel card for accelerometers**

### **Input sensitivity**

Standard 100mV/g: The positive input terminal supplies a 4 mA constant current at max. , 20V to the built in transducer amplifier

### **Frequency range**

1.5 - 2000 Hz are pre set. The lowest frequency range can be changed to 10 Hz on the pc-board

### **Analysis output**

100 mV/g between 1.5 Hz-15000 Hz  
Min load 10 k  $\Omega$

### **Measuring range**

Selectable between 0-10, 0- 20 or 0-100 mm/s

This selection does not influence the sensitivity of the analysis output

### **RMS Value**

The instrument measures the RMS value of the signal within the selected frequency range

### **Current output**

The current output is selectable between 0-20mA or 4-20 mA on pc-board. Max. load not more than 600 ohm or 12V. 20 mA refers to 100% of selected measuring range.

### **Time delay**

The time delay of relay activation is adjustable between 0 and 90 sec.

### **Relay output and functions**

Single pole change over relay 5A/250VAC or 5A/24V

The relay coils can be activated or deactivated below the alarm level.

The 2-channel version has shared relays for both channels and the highest level activates the relay.

### **Power supply**

Standard is 100-240VAC. Optional 24VDC.

### **Enclosure dimensions**

Width 170mm, height 160mm, depth 130mm

## **Options**

Customer specified frequency and measuring ranges

Adaptation to temperature measurements with Pt100 elements

## **Ordering codes**

M2-1/A for one accelerometer

M2-2/A for two accelerometers

**Made in: Sweden**

**Sole Distributor:**



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