



# Vibration Meter VIB-33



## Intrinsically Safe Instruments Help to Minimize Risks in Hazardous Locations

Intrinsic safety (IS) is a concept that is used to prevent electrical equipment from causing explosions in hazardous environments. A hazardous environment is a location where potentially explosive mixtures of gases or fine powders are expected to exist. Electrical equipment has the potential of igniting these mixtures if sparks or high temperatures are generated during the operation of the equipment. In an intrinsically safe system, all of the equipment is designed and installed in such a way that it does not have enough energy to cause ignition of the potentially explosive gas mixture, even in a fault condition

**Intrinsically safe** and most popular version of Vibration Meter with its high performance, accuracy, **VIB-33 V Ex Series** is most popular industrial vibration meter. Now MCM has introduced a new intrinsically safe version – **VIB-33 V Ex** – for measurements in and around **hazardous areas**.

The new MCM VIB-33 V Ex can be used both inside and outside the **hazardous zone** without compromising performance or compliance. So there's no need to carry different tools for use inside or outside the **hazardous zones**.

This useful measurement is possible, Velocity mode allow a user to perform basic vibration analysis.



### Intrinsic Safety Applications

- Hazardous material storage facilities
- Auto motive paint booths/Petroleum dispensing areas
- Inlet monitoring of gas turbines
- Organic coating manufacturing
- Spray finishing areas/Solvent extraction plants
- Utility gas plants and facilities
- Aircraft hangars /Paper production
- Fuel transportation & servicing areas
- Petroleum refining facilities
- Oil /gas rigs /Flammable liquids storage facilities
- Processing refineries /Chemical production facilities



AM 100 Sensor

Vibration Meter VIB-33 Micro controller based has been designed as simple diagnostic tool for preventive maintenance. The instrument and the monitoring technique are based on the recommendations of **ISO 10816-3** standard. Need based maintenance is the latest trend of industry with which maintenance cost are low and life machinery is most optimum. Condition monitoring is basic need for need maintenance.

Technical Data:

**Vibration Meter VIB-33**

- Velocity range: 0.1 – 99.9mm/s True RMS & Peak 141mm/s
- Resolution: 0.1 mm/s
- Accuracy: ± (2% +0.1 mm/s)
- Frequency range: 10 – 1Khz (60-60000) cpm
- Display: 2x8 dot matrix LCD large characters with back light
- Enclosure: ABS plastic with anti static coat.
- Auto off: Yes
- Battery low indication: Yes
- Weight: 300gms with sensor
- Power: 9V DC Alkaline battery

**Sensor AM 100**

- Piezo-electric Accelerometer with integral electronics
- Linear frequency Range: Up to 2KHz
- Temperature Range: up to 100°C
- Casing: Stainless Steel, acid proof

**Marking:** EX ib IIB IP40 (-10°C≤Tamb≤+60°C)

**Standards:** IS/IEC 60079-0:2004, IS/IEC60079-11:2006 & IS/IEC 60529:2001

**Zones:** 1 & 2

**Standard Supply:**

- Vibration Meter VIB-33 1no
- Sensor 1no
- Cable with connectors 1no
- Magnetic base 1no
- Hand held probe rod 1no
- Protective cover 1no
- Battery 9V 1no
- Manual 1no
- Carry case 1no
- Warrantee card with calibration certificate 1no

Technical Data are subject to change without Prior Notice.

**MCM INSTRUMENTS**  
**(Machine Condition Monitoring Instruments)**

**An ISO 9001:2015 Certified**

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