

VM-11 Series

VM-11 Overview

Rotating machinery such as pumps and motors in oil refineries, petrochemical and iron & steel plants is periodically checked by the operator using a portable vibration meter as a part of equipment diagnosis.

However, a centralized system which monitors rotating machinery on-line saves labor and improves data accuracy.

The VM-11 Series Signal Conditioner is most suitable for on-line predictive maintenance systems with its compact design and low cost.



Equipped with a burn-down function for instant fault detection

The VM-11 has a transducer fault detection circuit that immediately detects faults such as breaking of a sensor wire and indicates a fault condition by burn-down on the output side.

A highly reliable design based on many years of experience in the field of vibration measurement.

Choice of installation

The VM-11 Series is designed for easy installation on either a rack, DIN rail or Wall mounting at any convenient location.

Fully isolated signal output for a more economical set-up

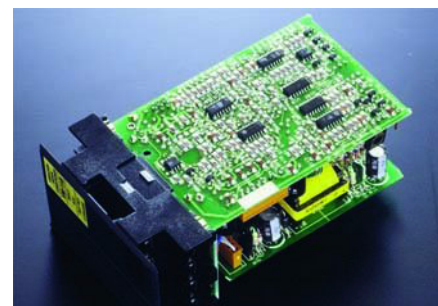
In today's plants with their large variety of rotating machines, computer controlled centril fault diagnosis is a must. The VM-11 Series Signal Conditioners supply a fully isolated signal output for direct input into a computer which makes for a highly economical set-up.

Extended range AC power supply to fit any type of instrumentation system

The power supply for driving the transducers is freely variable between 85 to 264VAC. Operation on 24VDC is also possible. Suitable for small to large scale instrumentation systems.

SMT for still more compact design

Our vibration signal conditioners incorporate Surface Mount Technology (SMT) to achieve an even more compact design.



Installation on a rack



Installation on a DIN rail



Wall mounting

ACCESSORIES

JIS, EIA Standard Rack (accommodates 9 units)

Racks for accommodating 5 or 3 units are also available. Also permits the use of a power supply unit.

Power Supply Unit

Can supply power to up to 9 VM-11 Conditioners at the same time, thereby remarkably reducing wiring work. Also offers easy maintenance.

DIN rail

This is a mounting rail complying with DIN standards. Permits one-touch installation of the VM-11 Conditioner.

* The above accessories are standard products of Yokogawa M&C Co., Ltd.

■ **VM-11K**
Displacement Input Vibration Signal Conditioner

This conditioner receives displacement input vibration signals from the VK-202A Vibration Transducer and converts the signals to an isolated signal of 4 to 20mADC (or 1 to 5VDC) proportional to the input signal.

■ **VM-11U**
Velocity Input Vibration Signal Conditioner

This conditioner receives velocity input vibration signals from the CV Series Velocity Transducer installed on the rotating machinery and converts the signals to an isolated signal of 4 to 20mADC (or 1 to 5VDC) proportional to the input signal.

■ **VM-11B**
Acceleration Input Vibration Signal Conditioner

This conditioner receives acceleration input vibration signals from the CA Series Acceleration Transducer installed on the rotating machinery and converts the signals to an isolated signal of 4 to 20mADC (or 1 to 5VDC) proportional to the input signal.

■ **VM-11A**
Vibration Signal Conditioner

The VM-11A Vibration Signal Conditioner converts vibration signals from the CA Series Acceleration or CV-86 Piezo-electric Velocity Transducers installed on rotating machinery to isolated signal of 4 to 20mADC or 1 to 5VDC. The vibration waveform, filtered depending on the specification characteristics, is output at 5Vpk-pk of full span from the waveform output terminal board.

■ **VM-11T**
Displacement Input Thrust Signal Conditioner

This conditioner receives displacement input signals from the VK-202A Vibration Transducer installed on the rotating machinery and converts the signals to an isolated signal of 4 to 20mADC (or 1 to 5VDC) proportional to the thrust (shaft position).

■ **VM-11P**
LVDT Signal Conditioner

The VM-11P LVDT Signal Conditioner converts signals from the LS series LVDT installed on rotating machinery to isolated signals of 1 to 5VDC or 4 to 20mADC proportional to the position.

■ **VM-11R**
Revolution Signal Conditioner

This conditioner receives revolution input signals from the RD Series Tacho Driver or MS Series Magnetic Pickup installed on the rotating machinery and converts the signals to an isolated signal of 4 to 20mADC (or 1 to 5VDC) proportional to the number of revolutions.

■ **VM-11S**
Vibration Switch

The compact, low cost VM-11S Vibration Switch receives input signals from the CA Series Acceleration or CV Series Velocity Transducers and outputs connect signals when the current vibration value exceeds the set value.

■ **Outline Drawing**

