

HTM

VM Vibration Monitor

FEATURES

- ❖ Instantaneous vibration level readout
- ❖ 4 adjustable set points with delay function
- ❖ Front mounting terminals
- ❖ Front programmable
- ❖ Three digit bright LED display
- ❖ Front LED status indicators
- ❖ Din rail or wall mounting
- ❖ Compact sensor



INTRODUCTION

HTM VM Vibration Monitor is a self contained instrument that measures the magnitude of vibration on any surfaces. Each vibration monitor consists of a programmable monitor and a vibration sensor. The monitor consists of a LED display with 4 alarm relays to display magnitude of vibration measured while the alarm relays provide multiple contact outputs to control or sound warning at different levels. HTM VM Vibration Monitor features simple to use menu-driven configuration that enable fast & flexible set up from the front panel. It acts as a controller via contact closure and bright LED on the front panel which indicate the alarm status.

APPLICATIONS

HTM VM Vibration Monitor is suitable for the monitoring of vibrations on any surfaces or rotating elements such as bearings, pumps & motors etc. When configured, the monitor will display the instantaneous value of vibration measured and provide 4 fully programmable pre-set/reset limits with relay outputs for external control equipment. All the 4 relays can be configured as high or low contacts independently.

SPECIFICATIONS

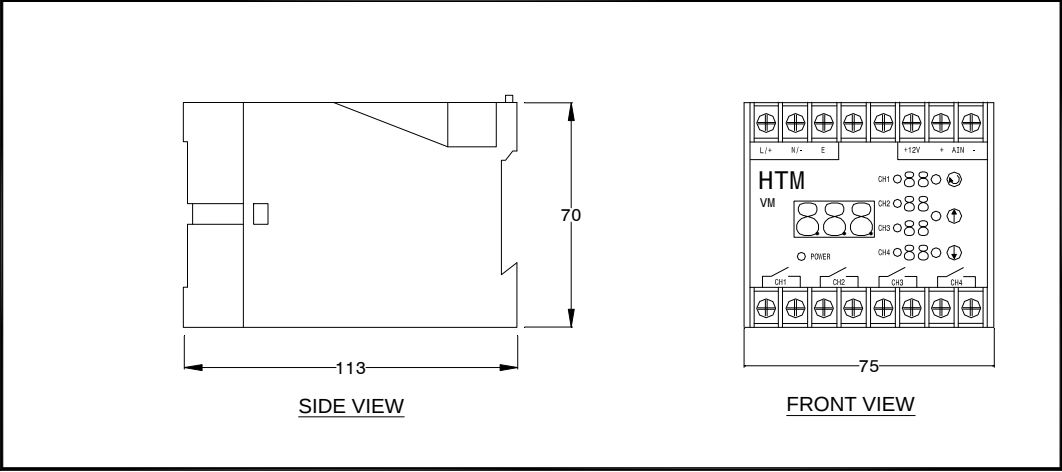
Monitor

Power : 230VAC +/-10% (5.4VA Max.)
24VDC (3W Max.)
Output : 4 X SPST rated 0.5A@125VAC
Range : 0-20.0mm/sec RMS
Set point : 0 to 20.0mm/sec
Reset : 0 to 100% of set value
Time delay : 0-60sec
Display : Three digit red LED, 7.62mm high
Display accuracy : +/-0.2% FS
Repeatability : +/-0.1% FS
Operating temp. : -10 C to +65 C
Humidity : 5 to 98% relative humidity
Protection : IP40
Terminal size : 2.5mm Dia. Cable
Dimensions (HxWxD) : 70x75x113(mm)
Weight : 250g

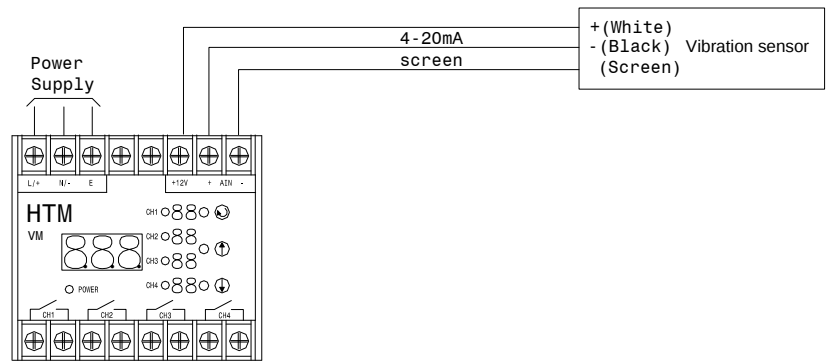
Sensor

Frequency response : 2Hz to 1KHz +/-10%
Dynamic range : 50g peak
Mounted resonance : 5KHz min.
Working temp. : -25 to 90°C
Temperature sensitivity : 0.08%/°C
Transverse sensitivity : Less than 5%
Max. sensor cable length : 1,000M
Protection : IP67
Mounting : M8 Male
Mounting torque : 8Nm
Weight : 140g

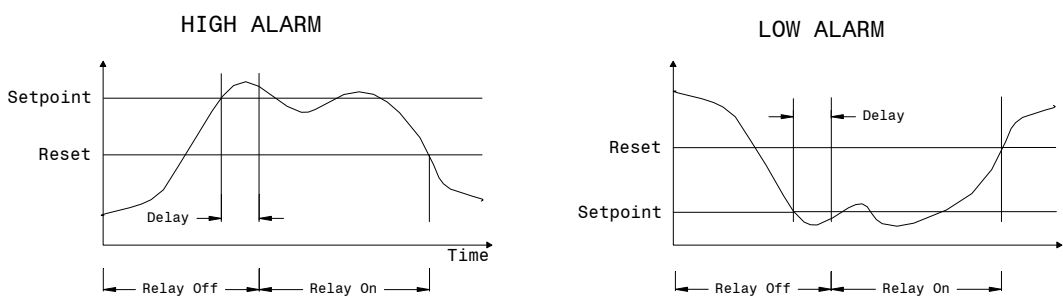
DIMENSIONS



TYPICAL WIRING DIAGRAM



RELAY OPERATIONS



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