

# 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 indicator
- ❖ Din rail or wall mounting
- ❖ Compact sensor



### SPECIFICATIONS

#### Monitor

Power : 230VAC +/-10% (5.4VA Maximum)  
24VDC (3W Maximum)  
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) : 70mmx75mmx113mm  
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%  
Protection: IP67  
Mounting: M8 Male  
Mounting torque: 8Nm  
Weight: 140g

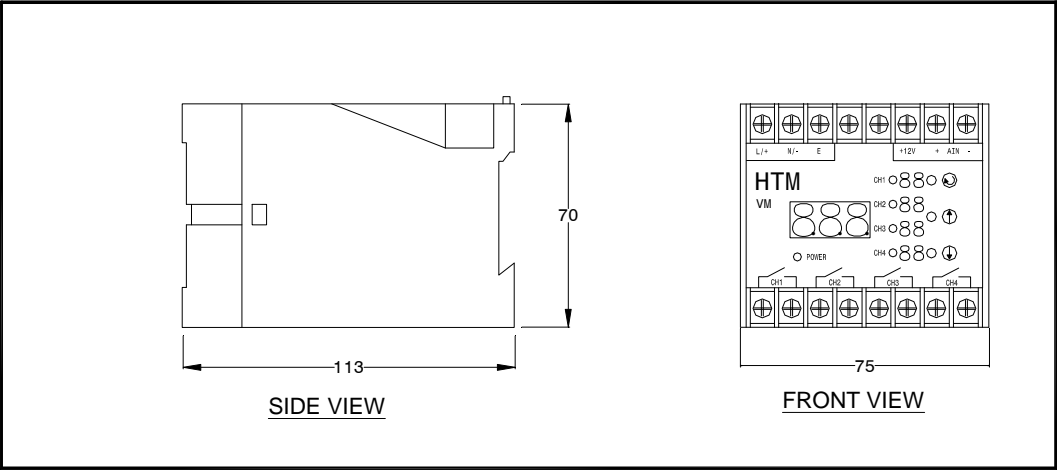
### INTRODUCTION

HTM VM Vibration Monitor is a self contained instrument that measures the magnitude of vibration on any surface. Each vibration monitor consist of a programmable monitor and an 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.

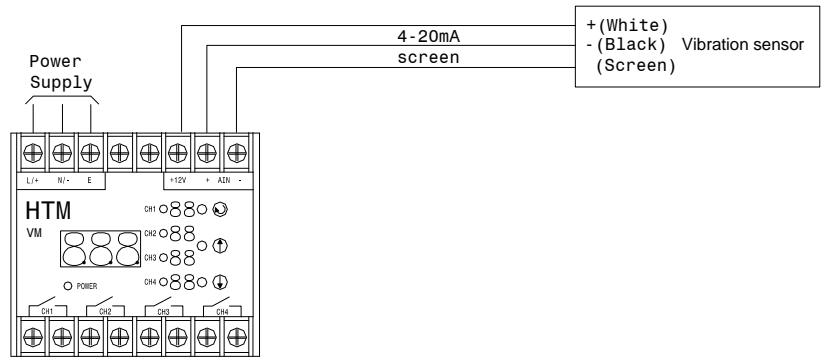
### APPLICATIONS

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 as required.

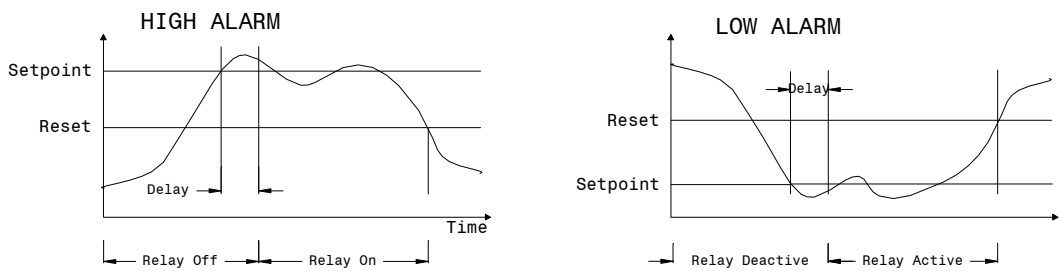
DIMENSIONS



TYPICAL WIRING DIAGRAM



THRESHOLD OPERATION



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