

Vibration Transmitter MC-5HD



- Mounting type: DIN
- Low Cost, High Performance
- Output 4-20mA
- Output Voltage 0-10V
- Double relay (Alarm/shut off)
- Sensor failed indication
- On-Line vibration indication
- Ascending/Descending level indication
- Easy Programming
- Universal power supply AC/DC
- 2 wire Power Supply > 16V
- 4 line LCD Display
- Removable Display front for safety
- Short circuit detection
- Approval Ex / I.S.:
FM, applicable in Class I, Div. 2, Group A, B, C, D -
Class I, Div. 2, Group IIC Zone 2
- Maritime certified
Det Norske Veritas, Ships & Offshore Standard for
Certification No. 2.4 Approval GOST R:



Summary:

The MC5 monitor lets you measure mechanical vibrations. It's 4-20 mA output works a signal transmitter for PLCs or DCS. With 2 additional relay outputs of Caution and Warning you can use it as a low cost monitor and great versatility. It has a frontal display where it shows the vibration in Real Time and also the relays state.

Alarm threshold setting:

While measuring vibration you can set both the Caution and Warning thresholds. When these limits are surpassed you can trigger sound or light emitting alarms, independently, as well as a contactor that could trigger a protection to stop the machine being monitored.

Relay Programming:

You can configure relays in 6 different ways:

- Milestone: As the limit is reached the relay activates
- Window: You set a low and a high value. Exceeding both limits, the relay behaves the same.
- Sensor error: Relay is activated by an error in reading the sensor.
- Power Supply: Relay is activated any time that power is feeding the Module
- Disconnected: Relay is in the off state (disengaged)
- Delay: You can configure a delay from 0 to 3600 sec. In either the activation or deactivation of the relay.
- Hysteresis: You can configure it in between 0,1 to 25% of the input range or in between 1 and 2999 counts.

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MC 5 Measuring Module:

Input: CTC PRO vibration type sensor (included)

Precision: 1%

Type: RMS or 0-Peak

Variable: Acceleration or Velocity

Measuring Range: 0,5 - 1 - 2 IPS and 10 -20 mm/s

Output: 4-20 mA proportional to scale.

Frequency Response: Acceleration 1Hz to 10.000 Hz - Velocity

1Hz to 1000Hz and 3Hz a 2500Hz

Operating Temperature: -32°C to + 80°C

Relative Humidity: 0 - 95 % non-condensing.

Enclosure: Insulated ABS

Sensor encasing: Stainless steel 316L

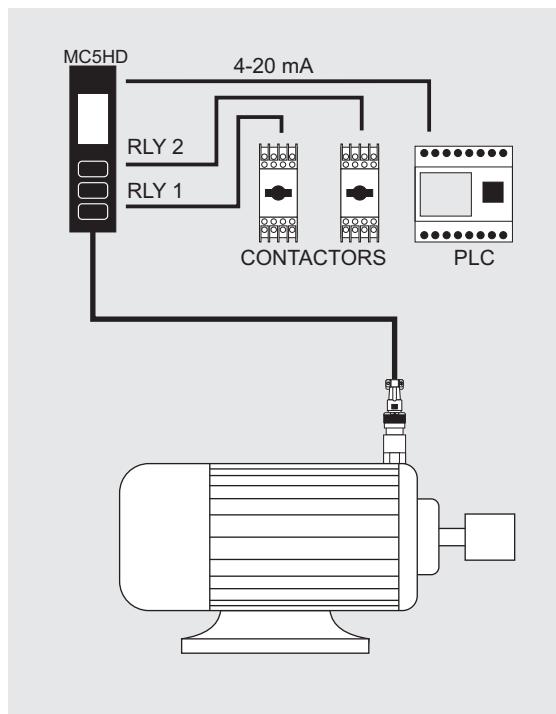
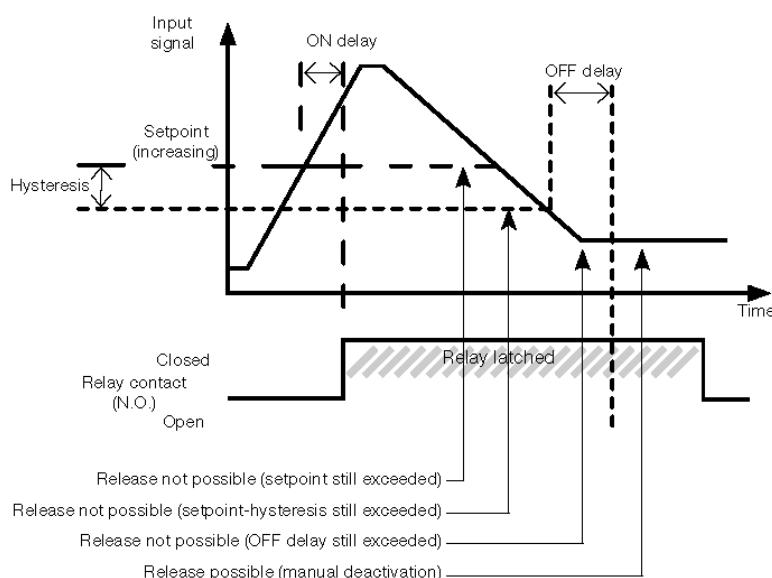
Sensor Mounting: Thread 1/4 28UNF

Sensor Connection: 2 pins MIL-C-5015

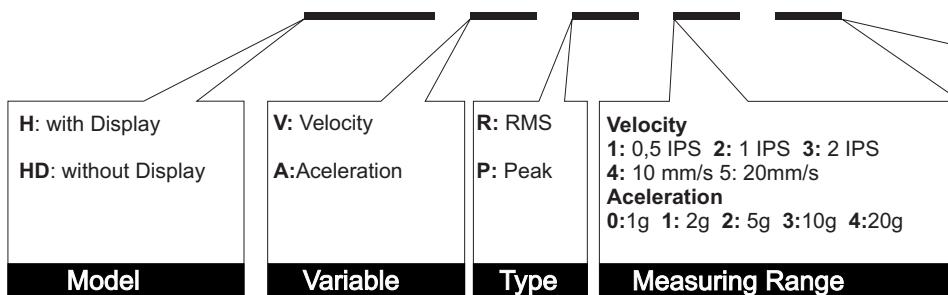
Sensor Temperature: -50 to 121 ° C



Graphic depiction of latch function setpoint



MC5



Velocity
A: 10Hz a 1.000Hz
B: 3Hz a 2.500Hz

Acceleration:
A: 3Hz a 10.000Hz
B: 3Hz a 2.500Hz
C: 3Hz a 5.000Hz

Frequency Response



International Organization for Standardization
 ISO 2854 3
 ISO 10816
 ISO 1940

ISO 9001

