

Vibration Monitor - 9620



Features:



- Standalone monitors in 96x96 mm in Panel Mount DIN Type.
- Digital Display Options.
- Two Channel Measurements.
- Two Relay Output (Alarm Contact Output).
- Programmability of all settings through Keypad.
- 3 LEDs per channel for indicating OK/ ALERT/DANGER status.
- RS485 / Ethernet with MODBUS RTU protocol.
- 32 units can be connected in RS485 multi drop network.
- Set Points for Alert Alarm Limits, Danger Alarm Limits, Alarm Time Delay.
- Unit address and baud rate programmable through key pad.
- Buffered outputs for analyses.
- Operating power supply range from +24VDC \pm 10%.
- Built in power supplies necessary for sensors operation.

Vibration Monitor VM-9620 is a continuous online monitoring system suitable for condition monitoring and machinery protection applications. The system is +24V DC operated and industry standard DIN sized Rack mountable PPE+PS enclosure. These monitors employ a contact based ICP accelerometer/Non Contact Eddy Current Proximity Sensor for the input and dedicated 5 digit 7 segment display for displaying vibration values. Also measured parameters will be communicated to remote terminal via MODBUS RTU on RS485 / Ethernet gateway. The system has 2 dedicated relays for alarm and trip. Each channel has tricolor LED indication for indicating OK, DANGER and ALERT status. VM9620 provides industry standard 4-20mA DC signal output for interfacing with Distributed Control System (DCS). Vibration monitors provided with buffered output for analyses to facilitate fault diagnosis.

Applications

- Steam turbines.
- Air Handling equipment.
- Compressors, pumps, chillers and air-conditioning plants.
- Sub-station application for transformers and reactors.
- Generator sets.
- Portable or stationary generator sets.
- Motors, submersible pumps.
- Machine tools.



Specification		
Casing Measurement	Input	Piezo-Electric Accelerometer
	Number of channels	2
	Range	Acceleration : 0 - 200m/s ² true RMS Velocity : 0 - 200mm/s true RMS
	Accuracy	5% ±1Digit
	Display	7-Seg 5x5 digit Display.
	Freq Range(±3db)	10Hz - 5KHz
	System Cable Length	5 meter
	Power supply for Transducer	Built-in 2mA constant current source.
Non Contact Measurement	Input	Proximity Transducer
	Number of channels	2
	Range	+/-40 mils
	Sensitivity	7.87 V/mm (200mV/mil).
	Freq Range(±3db)	DC- 10KHz
	System Cable Length	5 meter
	Power supply for Transducer	Built-in -24VDC.
Accelerometer 	Accelerometer (ICP based), Sensitivity 100mV/g, Range ±50g, Frequency Range(3db) 2Hz – 10KHz, Weight 90 Grams, Mounting Hardware M6X1 Stud	
Proximity Sensor 	Standard Calibration Target: AISI4140, Linear Range: 0.25mm to 2.25mm from sensor tip, Scale Factor: 7.87 V/mm (200mV/mil), Frequency Response: Dc to 10 kHz (-3 dB), Power: -24 V ±10 %.	
Buffered Transducer Outputs	The front of monitor has one coaxial connector for each channel. Current Output 4 -20mA, Voltage Compliance 0 to +24 VDC range across load. Load resistance is 0 to 600 Ω	
7-Segment Display / Key Pad	Display 2-Channel Measured vibration level And Alarm Limits Set points.Parameter setting through keypad.	
LED Indication	Three LEDs per channel for Ok / Alert / Danger, One Green LED for Communication, One Red LED for Power On.	
Relay Contact	Two Relay contact for Alert and Danger Alarm, Contact Rating AC 230V / 5.0A	
Power Consumption	5 Watts, Typical.	
Dimension.	96 x 96 x 145 mm (H x W x D), Weight 0.5 kg.	
Environment Condition	10°C to 50°C for Instrument and 0°C to 100°C for sensor	

ORDERING INFORMATION

VM9620	AB	CD
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- A. → Number of Channels
- B. → Channel Measurement Type
- C. → Communication
- D. → Retransmission Output Selection

EX: VM9620-22-10

A. Number of Channels

Example: 1 → Single Channel
2 → Two Channel

B. Channel Measurement Type

Example: 1 → Non Contact Vibration
2 → Casing Vibration

C. Communication Selection

Example: 0 → None
1 → RS485

D. Retransmission Output.

Example: 0 → None
1 → 4-20mA Current Output

Sarayu Infotech Solutions Pvt Ltd
#177, 12th A cross, 2nd floor, 2nd Stage
Mahalakshmipuram, Bangalore-560086
Tel Fax: +91-80-23597410
Email: info@sarayuinfotech.in

