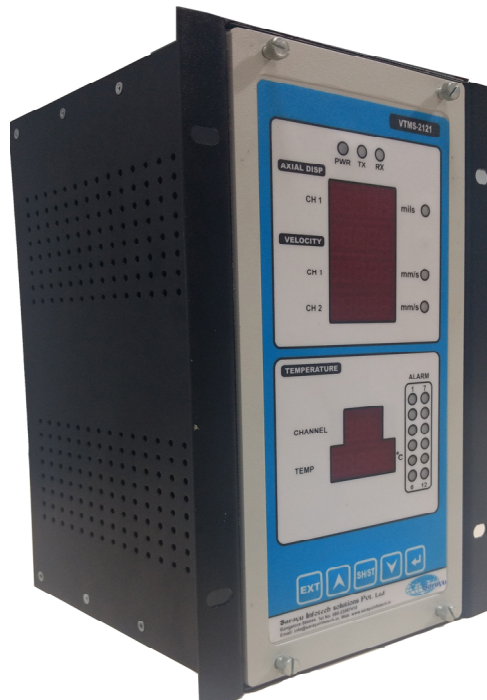


Vibration and Temperature Monitoring System

VTMS-x12x



Vibration Temperature Monitoring System is a continuous online monitoring system suitable for condition monitoring and machinery protection applications. The system is 24V DC operated and industry standard 6U 19inch Rack mountable. The system measures 12 channel temperature, 2 channel contact type vibration, and 1 channel non-contact type vibration parameters. The system has dedicated 5 digit 7 segment display for displaying vibration values, one 5 digit 7 segment display for displaying 12 channel temperatures in scan mode and one 3 digit 7 segment display for channel indication. Also measured parameters will be communicated to remote terminal via Modbus RTU on RS485. The system has 8 programmable relays for alarm and trip. Each channel has tricolor LED indication for indicating OK, DANGER and ALERT status.

Features:

- 12 channel Temperature, 2 Channel Velocity and 1 Channel Displacement.
- 5 digit display for displaying Temperature, Velocity and Displacement.
- Programmability of all settings through Keypad.
- One tri color LED per channel for indicating OK/ ALERT/DANGER status.
- RS485 serial port with MODBUS RTU protocol.
- 32 units can be connected in RS485 multi drop network.
- Unit address and baud rate programmable through key pad.
- All Settings stored in Non-Volatile memory to prevent any data loss.
- 8 Relays for alarm and trip.
- Wide operating power supply range from 18-36VDC nominal 24V DC.
- Built in power supplies necessary for sensors operation.



Temperature	Input	RTD PT-100
	Number of channels	12
	Range	-200°C to +850°C
	Accuracy	0.1% FS±1Digit
	Resolution	0.1°C
	Display	5 digit for temperature and 3 digit for channel number
Velocity	Input	Velocity probe IEPE type
	Number of channels	2
	Range	0.1 mm/sec to 25mm/sec
	Accuracy	1% FS±1Digit
	Resolution	0.1in/sec
	Display	5 digit
	Power supply for Transducer	2mA current 24V DC
Displacement	Input	Proximeter output
	Number of channels	1
	Range	0.1mil to 40mil
	Accuracy	0.5% FS±1Digit
	Resolution	0.1mil
	Display	5 digit
	Power supply for Transducer	-24VDC for proximeter
Parameter settings	Through Keypad	
Set points storage	Non Volatile Memory	
Alarm and Trip settings	Individual Channelwise	
LED indication	One Tri color LED per channel Red- Danger Yellow- Alert Green-OK One Green LED for Communication Indication One Red LED for Power supply indication	
Output Relays	8 Relays	
Field Input Terminations	Combicon connector	
Relay Contact Ratings	230V 5.0A	
Communication Port	RS-485	
Communication Protocol	MODBUS RTU	
Enclosure	MS Powder coated	
Dimension (in mm)	Overall	164(W) X 270(H) X 180(D)
	Cutout	128(W) X 270(H) X 180(D)
Power Supply	24 VDC	
Environment Condition	10°C to 50°C	

ORDERING INFORMATION

VTMS	A12B
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- A. → Number of Casing Vibration Channels
12 → 12 Channel Temperature Measurement (Fixed)
B. → Number of Non Contact Vibration Channels

EX: VTMS-2121

A. Number of Casing Vibration Channels
Example: 2 → Two Channels

B. Number of Non Contact Vibration Channels
Example: 1 → One Channels

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