

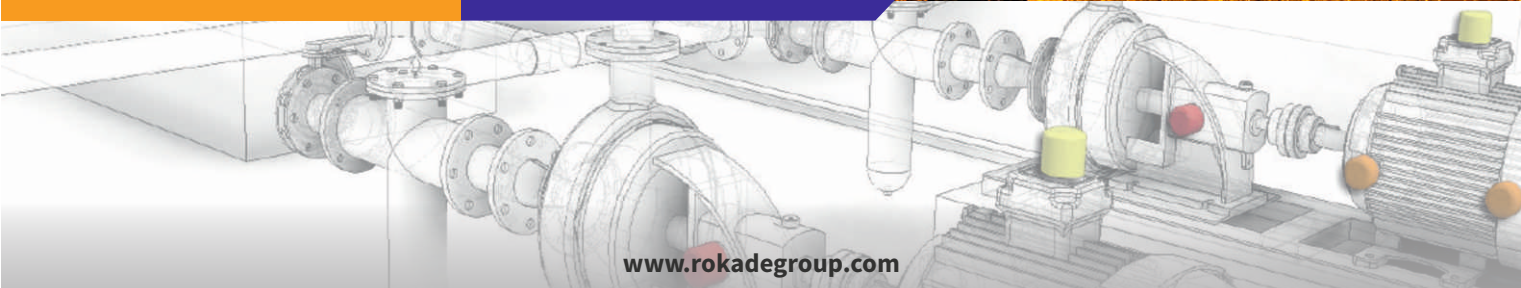


ROKADE RoTek India Pvt. Ltd.

Vibration Monitoring Systems



We sense and monitor
your Plant effectively
& economically

The background of the central text is a photograph of a large industrial plant at night. The facility is illuminated with warm yellow lights, highlighting its complex structure of towers, pipes, and scaffolding against a dark blue sky. A tall, thin tower is the most prominent feature on the left side of the image.

www.rokadegroup.com

ROKADE GROUP OF COMPANIES has been one of the leaders, providing Vibration Consultancy, On-site Balancing, Laser Shaft Alignment and In-House Dynamic Balancing Services for numerous Clients from almost all Sectors, both in India and abroad. We have installed world class Dynamic Balancing Machines of various Models to meet varied needs of the Customers.

By virtue of being in the field, we also understood the rudiments of the Customers' needs and pulse of their requirements for trouble free running of Plants, we have thought of manufacturing the most technologically advanced and economically viable Vibration Monitoring Systems, and Dynamic Balancing Machines with software imported from abroad, as well as we are exclusive channel partner in India for Erbesd Instruments USA for Wireless Condition Monitoring System & Motion Amplification Software.

Also, we are marketing Machine Protection System API 670 complaint of World's leading manufacturer for critical Industrial Assets.

Any sudden Machine Breakdown can play havoc with Plant running and resultant Production Losses. In this highly competitive world, no one can even imagine this situation to arise, that too after investing heavily on Plant & Machinery.

Regular Machine check and effective Predictive Maintenance almost eliminate such a scenario. Therefore, Installation of a more Technologically Advanced Health Monitoring Unit makes sense & worthwhile.

We design, manufacture, supply, install and commission Vibration Monitoring Systems backed by most advanced technology, to meet each Customer's needs:



Rotating machinery is the heart of any Plant. It is very essential to run a machine at high efficiency without any trouble. The deterioration in the efficiency of rotating machines cannot be predicted, but with the help of the Online Vibration Monitoring and Analysis System, this can be properly judged.

Vibration Monitoring System, applied in an industrial or maintenance environment aims to reduce maintenance costs and equipment downtime by early detection of the fault. Vibration monitoring system is a key component of condition monitoring program and is often referred to as Predictive Maintenance of the rotating equipment.

We sense and monitor your Plant effectively & economically.

Vibration monitoring devices use Accelerometers to measure changes in amplitude, frequency, and intensity of forces that damage rotating equipment. Studying vibration measurements allows teams to discover **imbalance, looseness, misalignment, structural looseness or bearing wear** in equipment prior to failure.

Applications

- Hydro Turbine
- Power Generation
- Oil & Gas
- Turbo Machinery
- Automotive
- Pulp & Paper
- Mill Monitoring
- Steam turbines
- Industrial gas turbines
- Aeroderivative gas turbines
- Reciprocating compressors
- Centrifugal compressors
- Axial compressors
- Screw compressors
- Gears
- Turbo-expanders
- Horizontal and vertical centrifugal pumps
- Reciprocating pumps
- Electric motors
- Generators
- Fans
- Blowers
- Agitators
- Mixers
- Centrifuges
- Pulp refiners
- Ball mills

LOOP POWERED SENSORS (4-20 mA Transmitter)

4-20mA Sensors are an Accelerometer and Transmitter combined into one housing. Each Sensor provides a 4-20mA output signal proportional to the overall vibration level in terms of acceleration, velocity or temperature. 4-20mA sensors can interface directly with process control systems such as **PLC, DCS and SCADA** systems creating a low cost and effective continuous monitoring system.

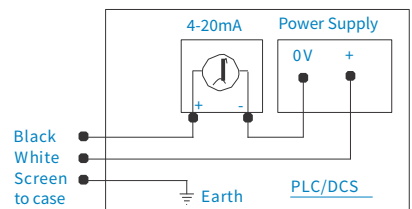
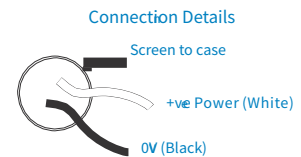
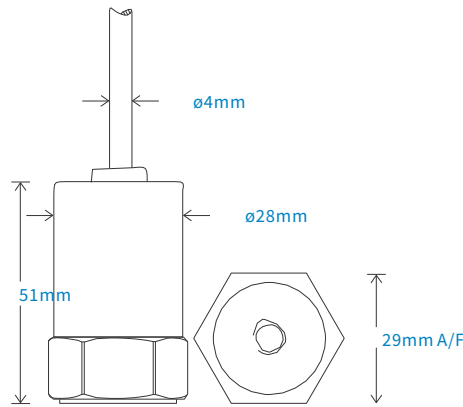


Key Features

For use with PLC/DCS systems
Customisable features

Industries

Building services, Pulp and Paper,
Mining, Metals, Utilities, Automotive,
Water, Pharmaceutical



Technical Performance

Mounted Base Resonance	5kHz min
Velocity Ranges	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response	10Hz (600cpm) to 1kHz (60kcpm) $\pm 5\%$ - ISO10816
Isolation	Base isolated
Range	50g peak
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	150gms (nominal)
Maximum Cable Length	1000 metres
Standard Cable Length	5 metres
Screened Cable	Braided - length to be specified with order
Mounting Threads	see: 'How To Order' table

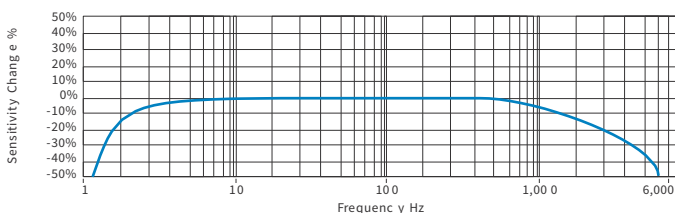
Electrical

Current Output	4-20mA DC proportional to Velocity Range
Supply Voltage	15-30 Volts DC (for 4-20mA)
Settling Time	2 seconds
Output Impedance	Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation	>108 Ohms at 500 Volts

Environmental

Operating Temperature Range	-25 to 90°C
Sealing	IP65
Maximum Shock	5000g
EMC	EN61326-1:2013

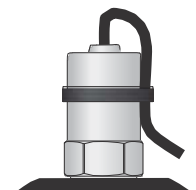
Typical Frequency Response



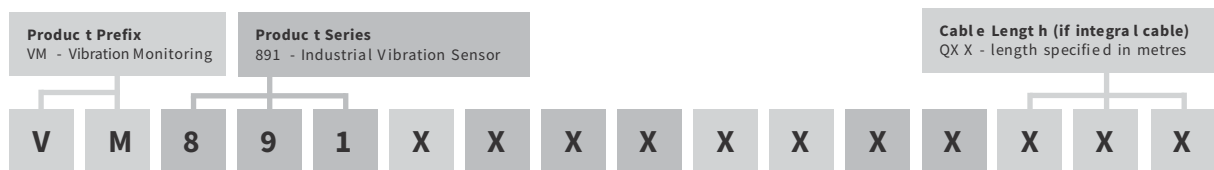
Applications

Fans, Motors, Pumps, Compressors,
Centrifuges, Conveyors, Air Handlers,
Gearboxes, Rolls, Dryers, Presses,
Cooling, VAC, Spindles, Machine Tooling,
Process Equipment

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



How To Order



Extra Options (if required)

F - Filtered
I - Intrinsically Safe
L - 316L Stainless Steel
RT - Temperature Output PT100
S - 90° Side Exit
T - Temperature Output

P - Peak Range
PP - Peak to Peak Range

Velocity Range (RM S unless s specified)

010 - 0-10 mm/sec
020 - 0-20 mm/sec
025 - 0-25 mm/sec
050 - 0-50 mm/sec
100 - 0-100 mm/sec

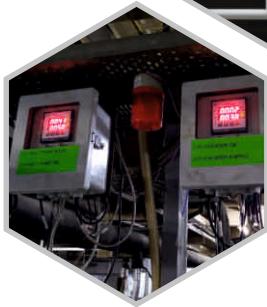
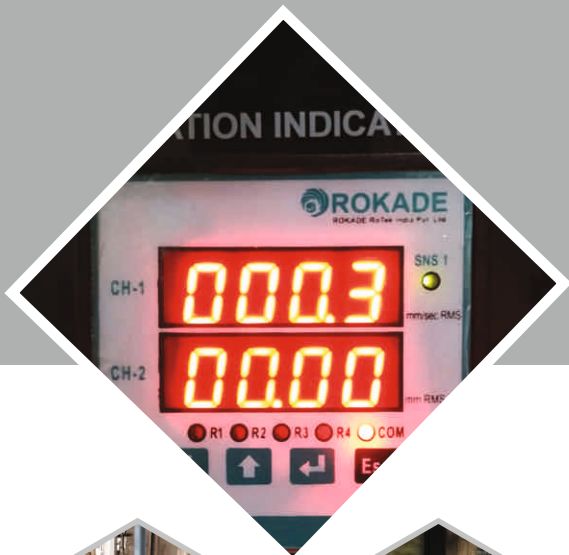
Cable/Connector

01 - PUR
02 - Braided
07 - Silicon
08 - Flame Retardant
50 - 2 Pin MS
54 - M12

Mounting Threads

01 - 1/4-28" UNF Female
02 - 1/4-28" UNF Male
05 - Quick Fit Female
06 - M6 x 1mm Male
08 - M8 x 1.25mm Male
10 - M10 x 1.5mm Male

OUR PROJECTS :



OUR PRESENCE



● OUR BRANCHES:

Navi Mumbai (HO)

R / 375, TTC Industrial Area, Rabale,
Navi Mumbai - 400701 (M.S)
Tel.: 022 - 21737777 / 21737788 / 8828886611

Thane

5, U.K. Industrial Estate, Behind Durian Furniture,
Opp. Oswal Park, 2nd Pokharan Road,
Thane (W) - 400 601, (M.S)
Tel.: 022 - 21737777 / 49247777

Mumbai

4 / A Wing, Bharat Indl Estate,
Off. Lake Road, Opp. Hind Rectifier Co.,
Bhandup (W), Mumbai – 400 078 (M.S)
Tel.: 022 - 21737777

Pune

Gat No # 256, Indrayani East, Jyotibanagar,
Talawade, Pune 412 112 (M.S)
Tel.: 022 - 21737777

Email

sales@rokadegroup.com
hsr@rokadegroup.com
kumar@rokadegroup.com

Mobile

+91-8898886622
+91-9820027242

Website

www.rokadegroup.com

● Our Representatives :

AHMEDABAD | BANGALORE | CHENNAI | DELHI |
HYDERABAD | KOLKATA | RAIPUR | VISAKHAPATNAM

follow us    / rokadegroup