

Applications

Parameters

Bearing



- Vibration
- Acceleration
- Temperature
- Displacement
- Frequency
- Speed
- Velocity
- Alignment

Gear Mesh



Shafts

Gear Profile



Motors

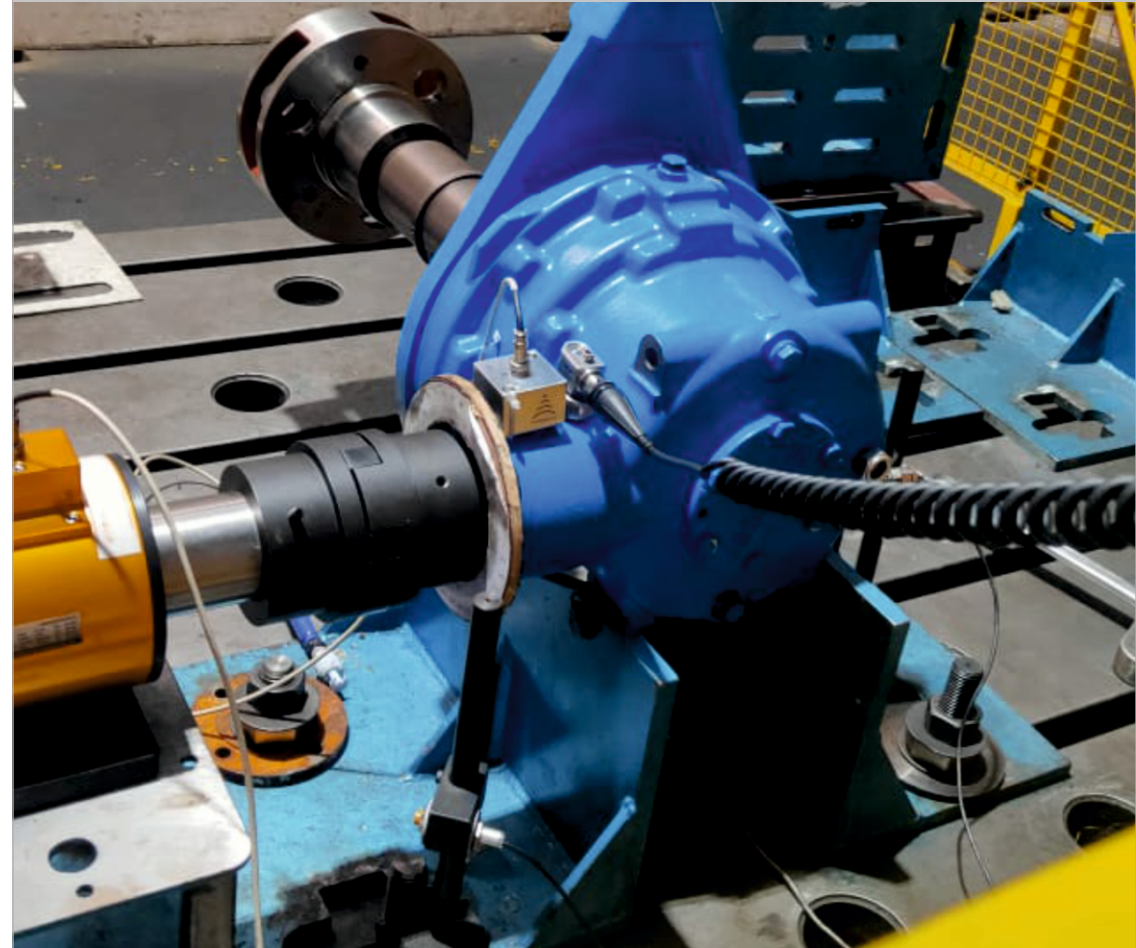


Pumps

Few Customers



Asset Condition Monitoring on



SeethaRam

Mechatronics Pvt Ltd

seetharam.in

➡ Bridging Gaps in Technology ⬅



seetharam.in



sales@seetharam.in

Fortunately, most types of failures on Rotating machines can be predicted by measuring, observing and comparing the pattern of vibrations experienced on the machines on continuous basis. The signature analysis of the typical distorted vibrations as against regular pattern convey the type of emerging fault scenario. (bearing failure, shaft misalignment, loose mounting etc) This helps in Predictive maintenance which is more efficient and cost effective in comparison to the typical periodic maintenance.

Which is the Monitoring Scenario that applies to your type of Machineries ?

Unique Monitoring Scenarios

Breach of Vibration Thresholds

 *Periodic Vibration Monitoring*

 *Continuous Vibration Monitoring*



Vibration Sensor

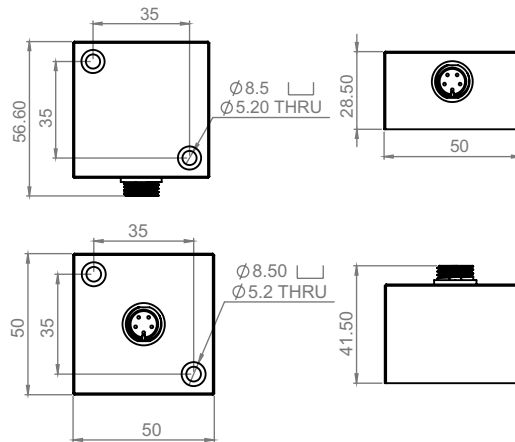
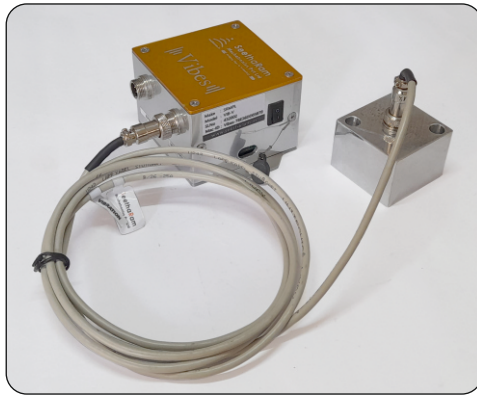
Breach of Vibration Thresholds with Process Data correlation


 *Continuous Vibration Monitoring with process data v.i.z. RPM, Temperature correlation*

Vibration Analysis

 *Periodic Vibration Data Collection with waveform or transient data*

 *Continuous Vibration Monitoring with both process data correlation, waveform and transient data*



 Reciprocating Compressor

 Motors

 Pumps

 Centrifuges

Features

- Durable, reliable & Life cycle cost solutions
- Same hardware platform for multiple assets
- Condition monitoring & diagnostic platform for all your critical assets
- Measurements of vibration on shaft, natural structure-borne vibrations
- Time waveform, frequency and order analysis of vibrations.

Specification


Vibration Sensor	
Accelerometer	The triple-axis MEMS sensor
Frequency response	10 to 4000 Hz
Measurement range	±10g, ±20g, ±40g
Cross-Axis Sensitivity	±1%
Sensitivity	Typically 51200 LSB/g for ±10g
Non-linearity	±0.1% at ±10g; ±1.3% at ±40g
Tolerance	±3%

Physical	
Mounting	Magnetic clamp / Stud mounting
Shock Resistance	±40g continuous vibration
Operating Temperature Range	-40°C to 105°C


Vibes	
Power Supply	USB-C (Power Adaptor in your scope)
Battery (Optional)	Stand-by in-built rechargeable battery
Processor	32-bit 144 MHZ ARM Cortex M4F processor
Antenna	Integrated antenna with 2.5 DBI max gain

Unique Use Cases


 *Rotating Machinery*

 *Reciprocating Compressors, Engines, and Pumps*

 *Bearings and Gears*

 *Structural - Bridges, Pipes & Buildings*

 Turbines

 Structural Health Monitoring

 Heat Exchanger & Large fans

 Inspection Services