

VIBZER ENABLES

On-the-fly Detection of
Progressive Faults in
Motors/Pumps/Fans
&
Condition Monitoring
of Industrial Machines!



Machine Health is our cup of
tea!

VIBZER

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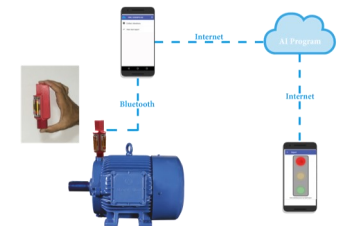
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Product/Service Information



Early Detection is the Key



Tel: +91 9823013606

Machine Doctor

Around 95% of Machines do not have any Machine Condition monitoring. Even where there are Vibration probes, they generally perform one function :- Alert on high Vibration and trip equipment!!!



Tine Portable Vibzer

Vibzer Enables you to solve your Machine Health Monitoring issues! Just fit it on the Motor, capture data via buetooth and our Ai program will tell your operator in layman terms, what they have to do!

- ◆ Tiny and Portable Device
- ◆ Wireless Solution
- ◆ Tri-axial Accelerometer
- ◆ Detects Progressive Deterioration in Electric Motors, Pumps & Fans
- ◆ Vibration based Condition Monitoring of Industrial Machines
- ◆ On-the-fly Report in Layman’s Language
- ◆ Report with Recommendations
- ◆ Management Dashboard

Mechanical Faults:

- ◆ Motor unbalance
- ◆ Shaft arching
- ◆ Shaft Fatigue
- ◆ Shocks in the rotor
- ◆ Parallel misalignment
- ◆ Angular misalignment
- ◆ Bearings misalignment
- ◆ Roller bearing damage
- ◆ Rotational looseness in plain bearings
- ◆ Looseness in roller bearing’s housing
- ◆ Oil turbulence in plain bearings

Electrical Faults:

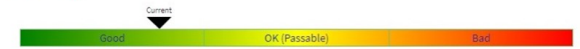
- ◆ Slot pass vibration in induction motors
- ◆ Broken or loose bars in induction motors
- ◆ Electrical vibration in motors

Environmental Faults:

- ◆ Vibratory contamination
- ◆ Resonance
- ◆ Defective data collection

Motor: DG Air washer

Roller Bearings



Recommendation

- The load end roller bearing seems to be damaged.
- The roller bearing of the free end is loose in its housing.
- The roller bearing of the load end is loose in its housing.
- Keep both roller bearings of under surveillance for increasing noise or temperature.

Unbalance



Recommendation

- Possible passable motor unbalance.
- Verify the motor shaft, it could be bowed.
- Verify the balance and concentricity of the components fixed to the motor shaft.
- Balance the motor.

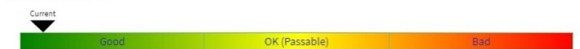
Misalignment



Recommendation

- Moderate misalignment.
- Align the machine or verify bearing alignment

Electrical Problem



Final Report

No recommendation...!!!



Recommendation

- Motor in passable condition. Can operate in the short term.
- Is this a critical motor? Test it again in one month.

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