

VibTrans - Dual Channel

Digital Vibration Monitor and Transmitter



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VibTrans, is the latest technology for maintaining safety in large industrial rotating machines. Until now, plant maintenance was performed according to the Time Based Maintenance system (TBM), that is, preventive maintenance. The schedule was set up, based on OEM manuals, or time- based on MTBF or analysing data based on past failures.

However, based on examinations after shutdown for replacements, we see that we can extend their life if we monitor machines online in a cost effective way. VibTrans is a simple, cost effective solution to protect machines by giving on-line information which you will be able to connect to the PLC or DCS of a plant and take a shut down whenever required through proper planning.

Need for Vibration Monitoring

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 is the easiest way to keep machines healthy and efficient in the long run. This reduces the overall operating cost as well as the down time period, increases plant availability and efficiency of rotating machines. To cope with global competition and pressure, every plant wishes a maximum uptime, hence maintenance planners are moving from active maintenance to proactive maintenance.

Features

Microprocessor based digital vibration monitor

Dual channel monitor accepts input from acceleration / velocity sensor

4-20 mA and 02 relay outputs per channel

Communication with DCS via MODBUS – RS 485

Panel / Field mount option available

VibTrans monitor can take data from accelerometer (with sensitivity of 100mv/g), velocity sensor (with sensitivity of 4mv/mm/sec and give a digital display in the form of velocity or displacement. It also gives 4-20mA , buffer and relay outputs.

It's a perfect solution for your industry to keep your machine running.

VibTrans is the right size, right price, right quality product with all the features for your vibration monitoring need

Benefits

Improve plant maintenance and profit

Enhance safety of machines and people

Increase the life span of machines

Reduce inventory cost

Reduce manpower cost to get data at regular intervals

Reduce energy cost

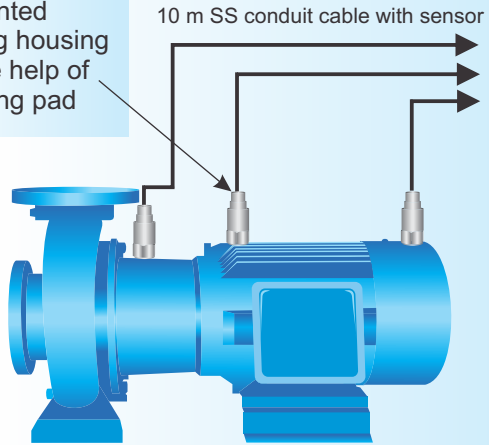
Layout for Panel Mount VibTrans

Field

Control Room

Example 1 : Horizontal Pump Coupled with Motor

Piezo-velocity sensor/accelerometer mounted on bearing housing with the help of mounting pad



Signal cable

Wall mounted panel to house VibTrans

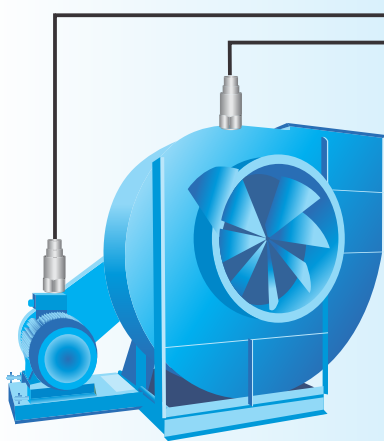


4-20mADC output per channel

Relay output per channel

Modbus / isolated output - as optional

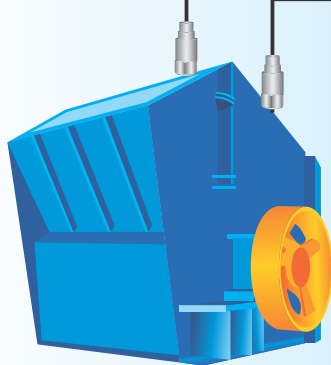
Example 2 : Blower and Fans



JB

JB

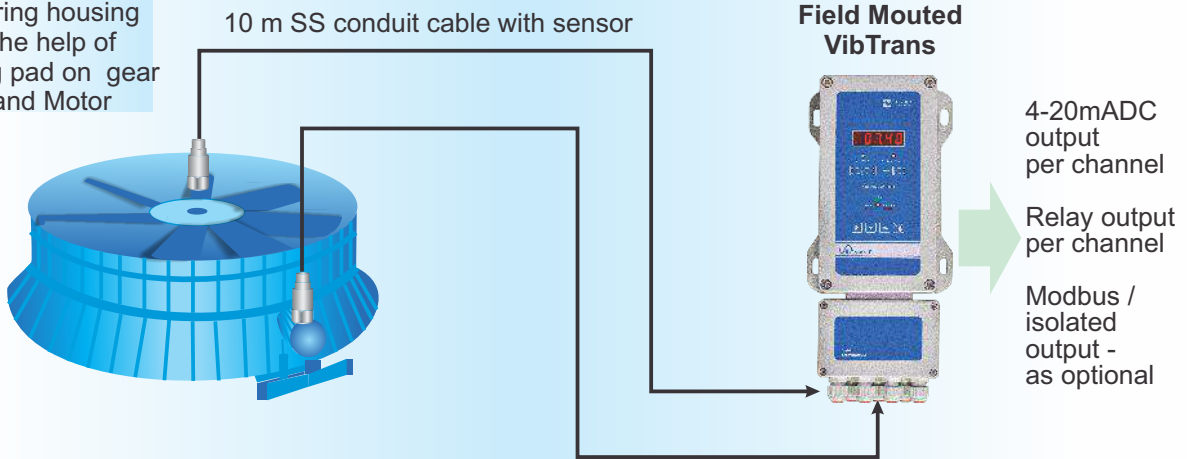
Example 3 : Coal Crusher



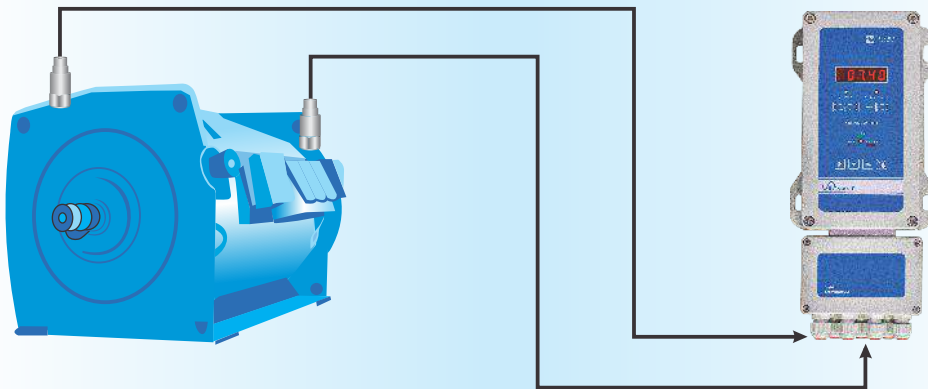
Layout for Field Mount VibTrans

Example 1 : Cooling Tower Fan

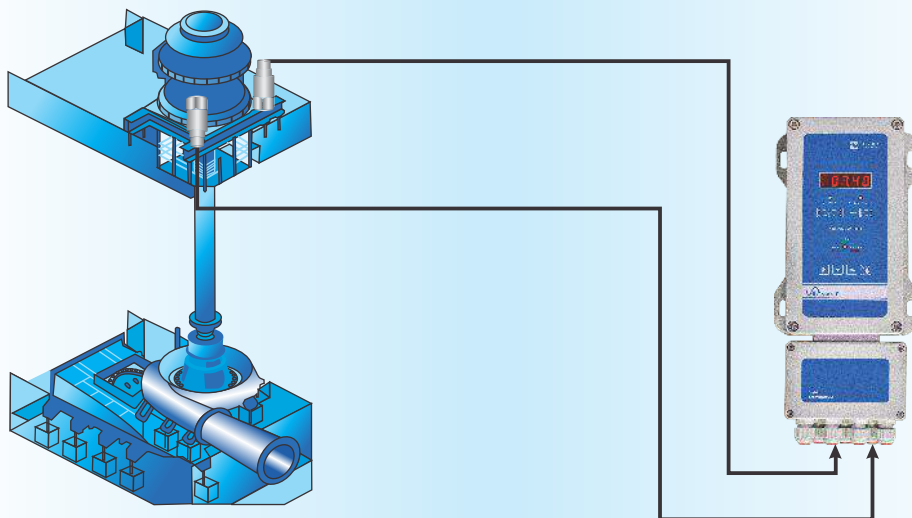
Piezo-velocity sensor/accelerometer mounted on bearing housing with the help of mounting pad on gear box and Motor



Example 2 : HT Motors



Example 3 : Vertical Pump



Applications



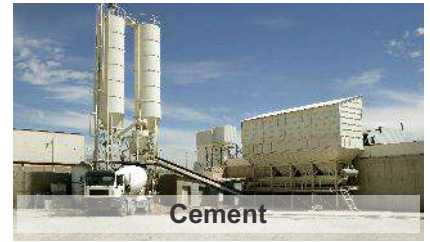
Power

Induced draft fans
Forced draft fans
Primary air fans
Coal mills
Coal crushers
Condensate extraction pump
Cooling water pump
Boiler feed pump
Auxiliary cooling water pump
Raw water pump
Make up water pump



Steel

Fans and blowers
HT motors
Gear boxes
Utility area - various HT
Motors and pumps



Cement

Fans
Crushers
Kiln
Vertical raw mill
Ball mill
Motors
Gear boxes
Utility area - various HT motors
and pumps



Infrastructure

Fans
Blowers in various IT malls
Shopping complexes
Water treatment and lift Irrigation
pumps



Paper

Pumps
Motors
Gear boxes
Paper rollers
Paper machines



Dairy / Food / Beverages

Mixers
Centrifuges
Pumps
Motors
Air compressors
Fans
Conveyors



Textile

Pumps
Fans and motors
Utility area - various HT
Motors and gear boxes



Mining

Pumps
Crushers
Conveyors
Motors
Gear boxes



Pharma

Fans and motors assembly in
Air handling units
Centrifuges
Conveyors



Forbes Marshall
Krohne Marshall
Forbes Marshall Arca
Codel International
Forbes Solar
Forbes Vyncke
Forbes Marshall Steam Systems

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