



Process Technology, Inc.

Vibration Monitoring and Predictive Maintenance Solution

Prevent unexpected failures resulting in costly down-time with an equipment health monitoring (EHM) preventative maintenance solution.

Identify when assets exceed pre-defined parameters.

More info and other solutions can be found at:

<https://www.bannerengineering.com/us/en/solutions/iiot-data-driven-factory/vibration-monitoring-for-predictive-maintenance.html>

Banner Engineering's solution monitors vibration levels on rotating assets such as motors, pumps, gearboxes, and compressors to detect:



- ✓ Imbalanced/Misaligned Condition
- ✓ Loose or Worn Components
- ✓ Improperly Mounted Components
- ✓ Over-temperature Condition
- ✓ Early bearing failure

Wireless vibration/temperature sensor continually monitors RMS velocity, high frequency acceleration, and temperature on rotating equipment, but uses vibration data only when asset is operational.



DXM Controller uses a machine learning algorithm to baseline values and set control limits for alerts with limited end-user interaction; creates a "Check Engine Light" for each motor.

DXM Controller collects data for trending and analysis; a script defines acute versus chronic issues

Data and alerts can be sent to the host control or to the cloud for IIoT connectivity.



Sure Cross Vibration and Temperature Sensor

QM42VT1 and Q45U Wireless Node



Sure Cross DXM100 Wireless Controller

PLC/PC

