

Challenge

Knowing the condition of assets is critical to maintaining and improving productivity. Vibration monitoring and predictive maintenance of such assets requires the ability to visualize data and understand information and then set intelligent thresholds for meaningful alarms. Typically, this can mean difficult programming or the need for in-depth vibration knowledge.

Banner Wireless Value

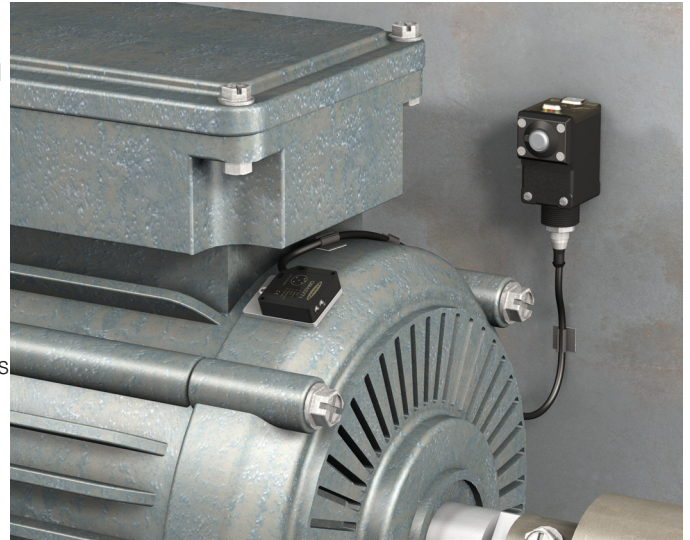
- **Visualize Data and Alarms**—HMI clearly displays alarms and graphs of raw vibration data along with baseline, warning, and alarm values.
- **Simplicity**—Plug in box, bind nodes through HMI screen, install sensors, and start collecting data. No programming required.
- **Capability**—Monitor vibration and temperature on up to 40 assets with wireless Nodes connected to VT1 vibration sensors.
- **Automatic Data Metrics**—No need to manually set data baselines or thresholds.
- **Vibration Analytics**—Fault indicators prior to major failures or disruptions by analyzing RMS Velocity and High Frequency Acceleration on the X and Z axis.
- **Peel and Stick**—Battery-powered Nodes attached to vibration sensors can mount virtually anywhere.
- **IIoT**—Connect to network for remote monitoring via cloud services.
- **Productivity**—Avoid unexpected downtime and be able to schedule repairs.



Banner Wireless Vibration Solutions Kit

Everything needed in one solution – Just add the Node/sensors as required

- Pre-programmed DXM700 (using a unique version of the [Vibration Monitoring & Predictive Maintenance Solutions Guide](#) files)
- Pre-programmed 10.1 inch touchscreen HMI for visualizing data
- 5-port Industrial Ethernet switch for network connection
- View up to seven days of data history on the HMI while archiving over 30 days of logged data in CSV files on the HMI
- Bind and perform site surveys of Nodes through the HMI
- Create new asset baselines easily via the HMI
- Add local indication of faults using optional DXM outputs to tower lights or indicator lights.
- Use the Condition Monitoring Node to monitor vibration and current.



Key Applications

- Monitor vibrations and current of any critical asset for predictive maintenance or need for full spectrum analysis.
- Identify abnormal asset conditions caused by misalignment, unbalance, bearing failures, pump cavitation, blade damage etc.
- Use on almost any asset such as motors, fans, compressors, pumps, etc.

Model Number	Wireless Controller/Gateway Model	Notes
SolutionsKit9-Vibe	DXM700-B1R1 900 MHz Performance Gateway	Imperial units
SolutionsKit9-Vibe-Q		Imperial units; Includes One DX80N9Q45VT Node and one QM42VT1 sensor
SolutionsKit2-Vibe	DXM700-B1R3 2.4 GHz Performance Gateway	Imperial units
SolutionsKit2-Vibe-Q		Imperial units; Includes One DX80N2Q45VT Node and one QM42VT1 sensor
SolutionsKit9-VIBEMETRIC	DXM700-B1R1 900 MHz Performance Gateway	Metric units
SolutionsKit2-VIBEMETRIC	DXM700-B1R3 2.4 GHz Performance Gateway	Metric units