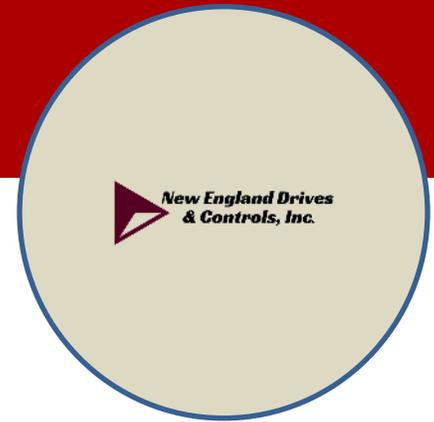


Connections

What's the Frequency, Kenneth?



“If you want to find the secrets of the universe, think in terms of energy, frequency and vibration”

-Nikola Tesla

As New England Drives & Controls constantly strives to become a better asset to our customers, our whitepaper series will feature new technologies or helpful insights that may be pertinent to the reader. It is our sincere hope that this information will be beneficial in both relating, and applying content to your industrial needs.

We hope you find this whitepaper series an enjoyable and informative read.

We always welcome your questions and comments.

figure out what motivates a Generation X-er. This concept seems timeless, as the Gen X-er that I am often tries to figure out what motivates a Millennial. As much as we are the same, we are different.

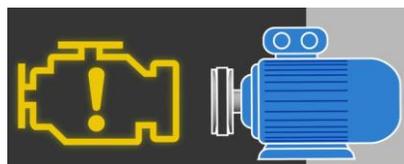
The reason I thought of the song was the relationship between frequency, energy, and vibration. As these concepts are all related, it seemed apropos to compare it to the new Banner Wireless Vibration and Temperature Sensor, for a multitude of reasons. The wireless portion utilizes frequency, the temperature measures energy, and the vibration sensor measures, well... vibration. It also gave me a reason to listen to a song while at work. Nuff said!

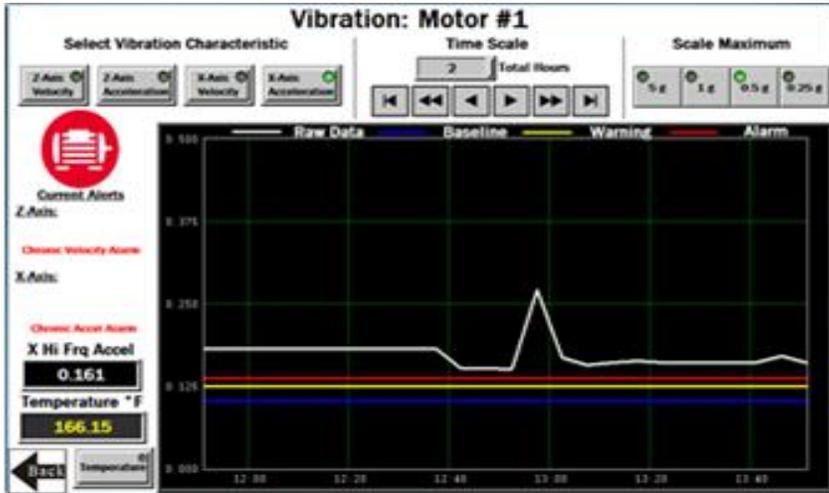
A few months ago, we talked about the Internet of Things (IoT) and this device is a perfect example of how to harness this power and use the IoT to give you advance warning of impending problems. The Banner QM42 allows you to monitor the vibration and temperature characteristics of a component, for



example; a motor. Over time, by monitoring and base lining the vibration and temperature characteristics, the motor will exhibit tell-tale signs when something is about to go awry. It may vibrate more when a bearing is beginning to wear down. It may get hotter for the same reason, or if the power to it has somehow changed. Whatever the reason, it can give a heads up, before the problem occurs.

This gives the maintenance department time to order parts, plan the repair for a low impact time, and keep everything running without a catastrophic stoppage costing both time and money! The fact that it is wireless, makes it easy to install, and can reach difficult places such as motors that are elevated, or mounted overhead. Think of it as a check engine light for your motors.





The Banner QM42 can be optionally interfaced to a Pre-Programmed from the factory, Banner DXM Wireless Controller with a 10.1" HMI, containing a five-port switch for local network connection as well as optional cloud services connections. The unit comes contained in a 14"x12" Polycarbonate Enclosure, with circuit breakers, a 1.3A Power Supply and terminal blocks. This is as "plug and play" as it can get! All with no programming on your part required.

The Banner QM42 is a great example of how easy it is to add a machine monitoring solution to your new or existing project or application.



Contact your friendly New England Drives & Controls representative to help answer any questions you may have on the banner QM42, a complete monitoring system, or other devices to help migrate your application to utilize the IoT!

In the interim, keep your vibrations positive... which reminds me of a Beach Boys song I should probably go and listen to now. 😊

-Peter Lavoie (Engineering Manager)



Toll Free: 888-275-2092
www.nedrides.com