Tech Talk —iPad Products For The Plant Floor

It is rapidly becoming apparent that the tablet,with wireless connection, is becoming an 'instrument' of choice for many plant maintenance functions. Some functions presently being offered,that I know of, are:
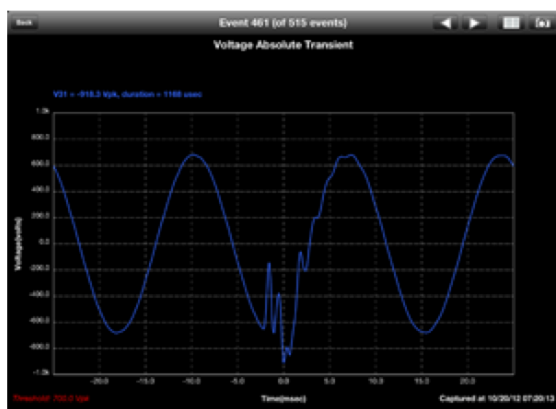
1.Power Quality and Energy Analysis

2.Monitoring and Diagnostics of Machinery

3.Shaft Alignment

1.Power Quality and Energy Analysis

Powersight in California offers the PSM-i Power Monitoring Software for the iPad, for PowerSight meters.
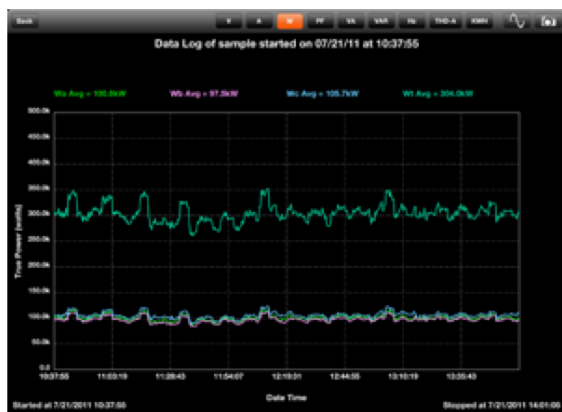http://www.powersight.com/HTML/PRODUCTS/PSM-i%20power%20monitor%20software%20for%20iPad.html

This free iPad software works with their Powersight meters with the WiFi option.The **WIFI** option provides the ability for the user to select Bluetooth OR Wifi communications. Older meters can be upgraded to the new WiFi capability.Below are some of the screens available.

View voltage disturbances such as transient events, sags, and swells captured by the PowerSight PS4500 Power Quality Analyzer.

Analog or Digital real-time meters - you get both! Each meter group can be expanded to show individual phases.

View data logs and long-term summaries of all power parameters: V, I, W, PF, VA, VAR, kWh, THD, Hz - all individual phases plus totals are plotted.

A Report Writer makes a final report in seconds with summary table and graphs in pdf format.

2.Monitoring and Diagnostics of Machinery.

Motionics in Texas offers (http://motionics.com/products.html) many rotor balancing, vibration and alignment apps to serve the iPad platform.Their apps are not free, but they are reasonably priced and they also offer hardware to interface with their software.
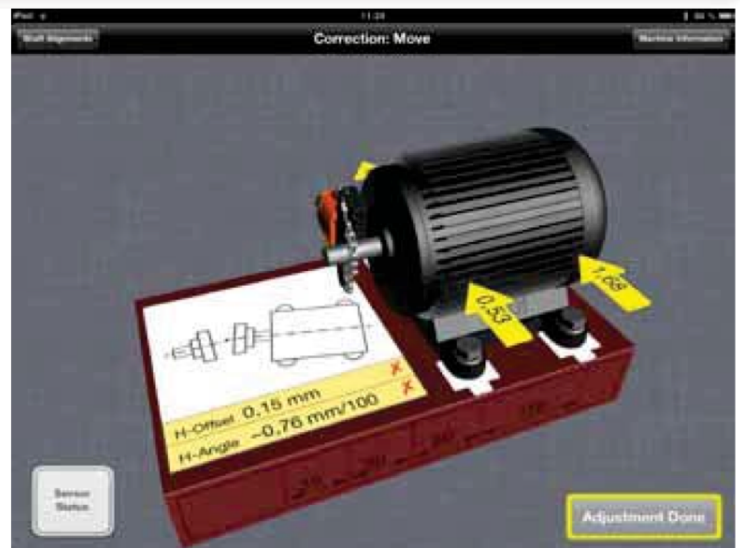

3.Shaft Alignment.

Alignment Supplies, in Ohio, https://alignmentsupplies.com offers what looks like a very user friendly product,the ALiSENSOR ShaftLaser to enable Soft Foot and Shaft Alignment to be carried out, in as friendly a looking way as I have seen.The Automatic generation of reports for both Soft Foot and Alignment looks like a big plus.

The software shows if shims should be added or removed to correct the vertical misalignment through an easy-to-understand animation.

Adjust according to the yellow arrows, or simply use the alignment diagram that is updated in real time. The misalignment values are also updated continously and the user instantly sees if the alignment is within tolerance.