

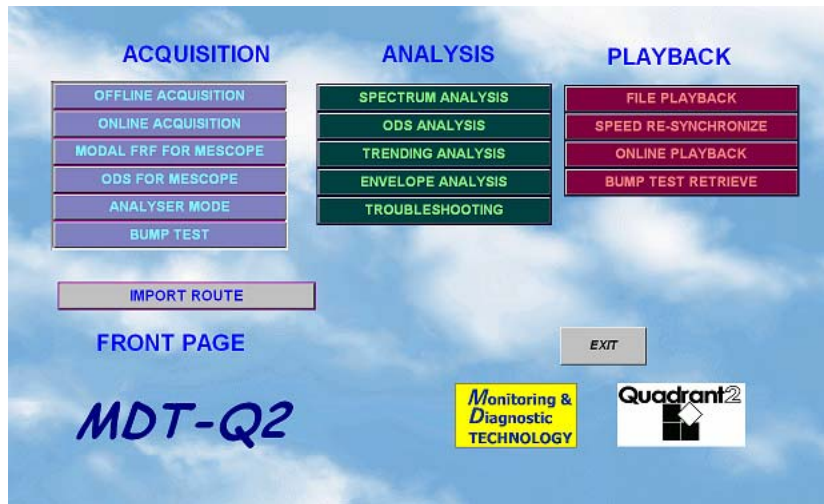
MDT-Q2 CONDITION MONITORING & DIAGNOSTIC SYSTEM
→ COMPREHENSIVE VIBRATION MONITORING AND DIAGNOSTIC TOOL
DEVELOPED BY MDT-Quadrant2 IN-HOUSE VIBRATION SPECIALISTS ...



HAVE YOU HEARD OF A CBM DATALOGGER THAT CAN MAKE **PHASE MEASUREMENTS** DURING ROUTINE DATA COLLECTION FOR ALL MACHINES?
..... YOU HAVE?

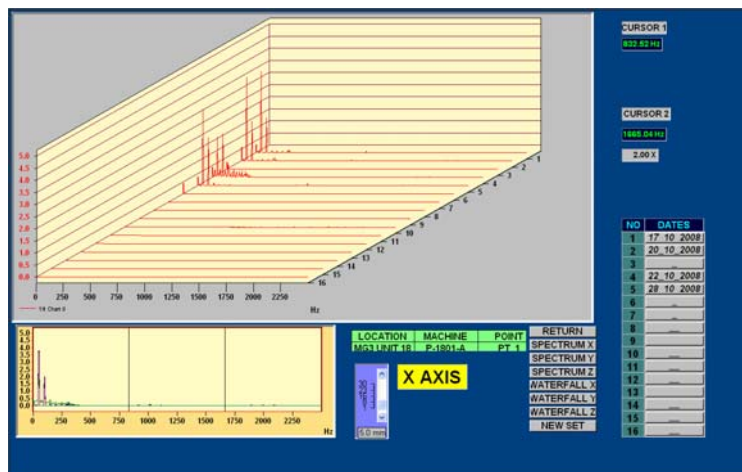
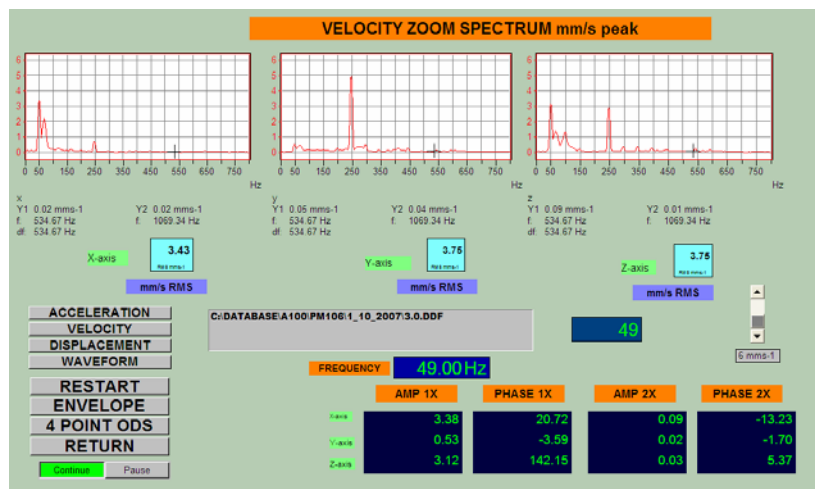
OK, HAVE YOU HEARD OF A CBM DATALOGGER THAT CAN MAKE PHASE MEASUREMENTS DURING ROUTINE DATA COLLECTION FOR ALL MACHINES **WITHOUT USING TACHOMETER HENCE NOT HAVING TO STOP THE MACHINE?**

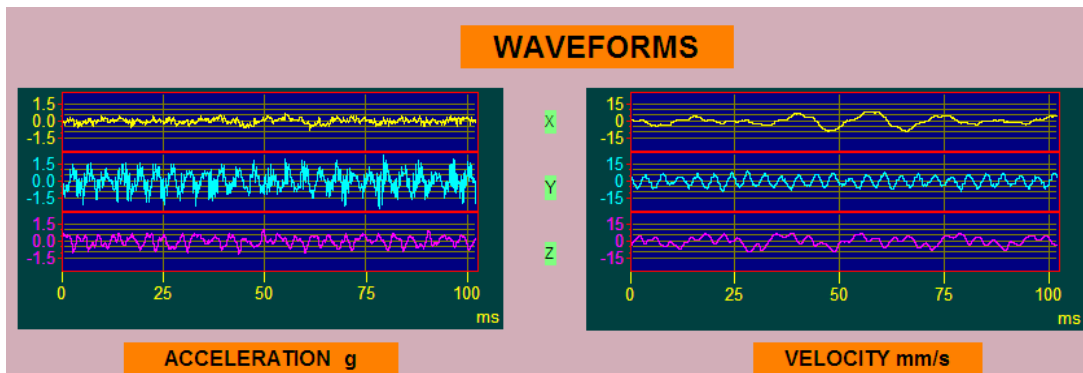
OUR SYSTEM CAN! IT'S A TRUE CBM SYSTEM THAT RECORDS ALL THREE CRUCIAL VIBRATION INFORMATION (FREQUENCY, AMPLITUDE AND PHASE) DURING ROUTINE DATA COLLECTION COMPLETING TO THE 33% INFORMATION MISSED OUT BY MOST DATALOGGERS, GIVING ALMOST PIN POINT DIAGNOSIS OF MACHINE PROBLEM.



MDT-Q2 system summarily perform the following:

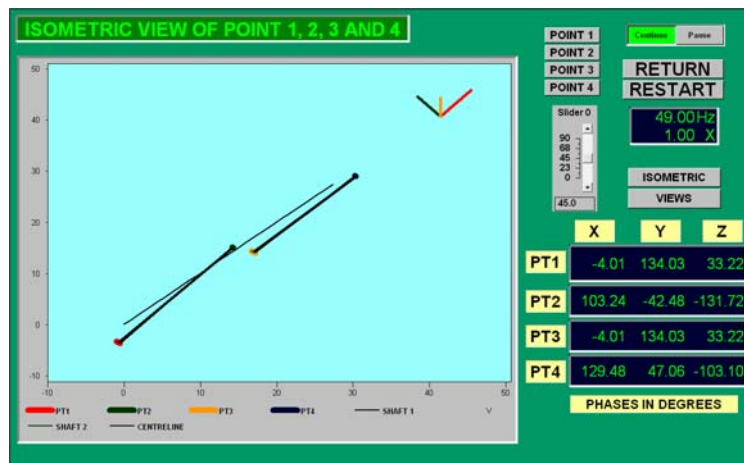
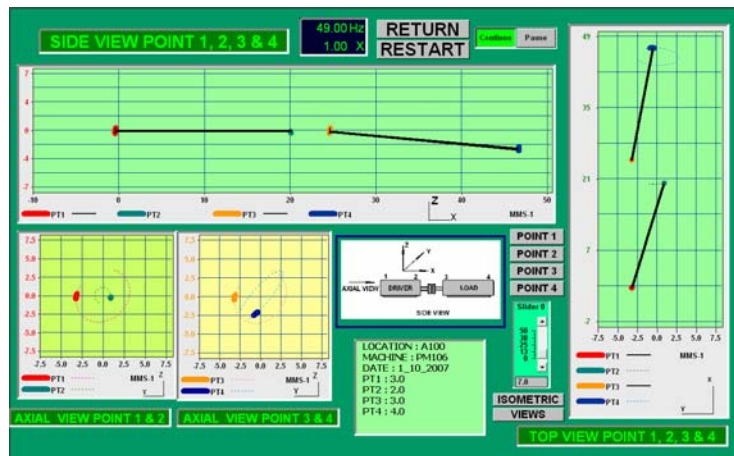
Generate **Phase Spectrum** during routine data collection for all measuring points without the use of tachometer. This means that you do not need to shut down machine to place the reflector. With phase, you have another crucial parameter (added on to the existing amplitude and frequency) hence reducing the possible causes to almost pinpoint.



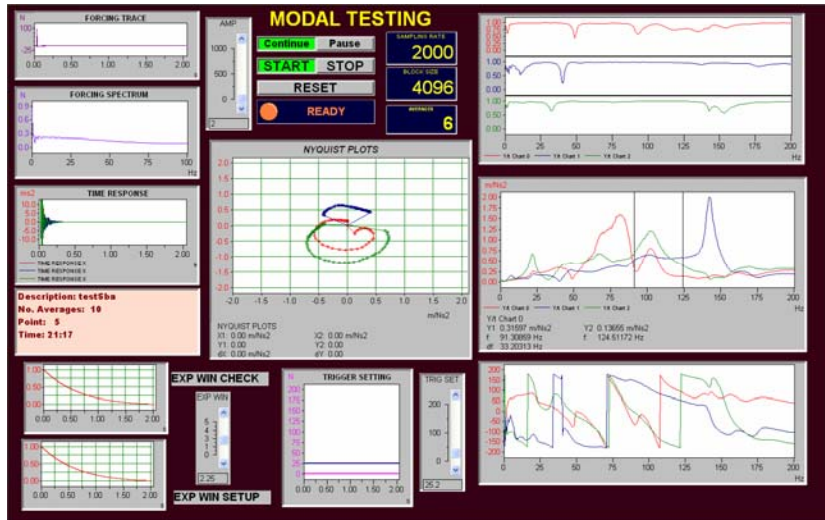


All data are stored in **raw digital form**. This means that you do not have to go on site again to recollect data for specific analysis such as envelope analysis, operating deflection shape analysis, reselection of frequency range, etc. This also makes data collection very fast as you do not require to retrieve settings and to perform averaging. Collection speed is about 15 secs for each point (3 directions simultaneously).

With the availability of phase, it can generate the **4 Point Operating Deflection Shape (ODS)** immediately after completion of measurement of each machine on site giving you animated information.

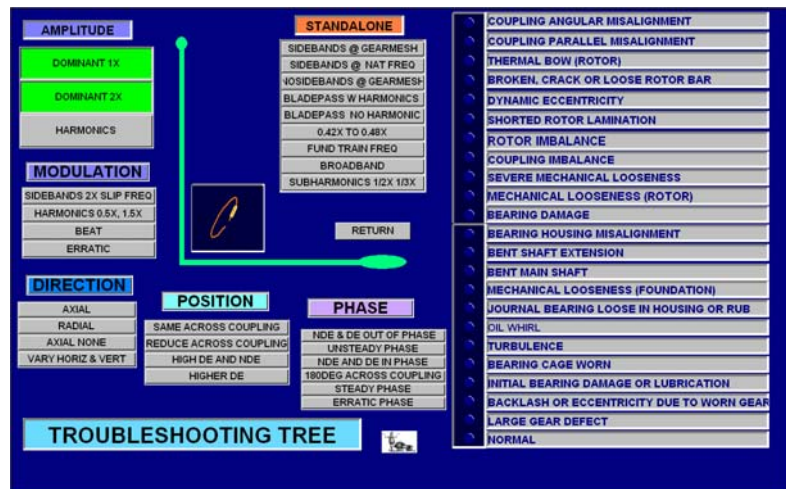


Modal Testing can be carried out for any required points during normal data collection, revealing the natural frequencies hence separating the problems of machine defects from structural dynamics weaknesses. Knowledge of bearing natural frequency band is also useful for envelope analysis during band pass filter settings.



The 24 bit ADC makes it accurate enough **without Auto-ranging and also overloading**. This is a very helpful time saving feature if you ask the data collectors.

No More Uploading and Downloading as all data measured goes straight into the hard disk.



When we combine micro PC with a USB based data acquisition unit, the **price is heavily slashed** from that of any dedicated data logger system available in the market without sacrificing the DSP performances. Each component is so standard that defects of any one of them can be easily replaced off the shelf.