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# news



## Contents

[MDW 2016](#)

[ATPOL II &  
ALL SAFE Pro](#)

[SPM DuoTech](#)

[The apt Group](#)

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Welcome to the **apt Group's** Third Quarter Newsletter for 2016.

Next week, 12-16 September, we will be holding our [Motor Diagnostic Workshop](#) in Perth! This is the [last opportunity to register](#) for this annual event.

There are many reasons to justify condition monitoring of electric motors. Probably the main one is that according to Nolan & Heap, 68% of equipment failures are random in nature, in other words failures are not age related.

The other reason, according to EASA, is that 47% of motor failures are electrical in nature.

If you would like to learn more about **improving Electric Motor System Reliability** within your plant, we welcome your attendance!

Further in this newsletter:

We are pleased to announce the [New & Improved ATPOL II and All Safe Pro](#) connection boxes, for safe testing of energised motor systems with operating voltages up to 1000V.

From SPM Instrument, since launching HD Technology – “Next Generation Vibration Monitoring” back in April this year, we have gathered some good examples of why this innovative technology should be used throughout the industry.

In this newsletter a case example is provided; the outcome being, vastly improved forewarning of failures! [Read further](#)

Lastly, we are pleased to include a collage of pictures from some of our field work, showcasing our testing services and installations. [Click here](#)

We hope you enjoy this newsletter.

Kind regards,

*Geoff Saper*

apt Group Team

Feel free to send us your [feedback](#)

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## **NEXT WEEKS' EVENT**

### **Motor Diagnostics Workshop 2016**

#### **Improve Motor System Reliability**

*This year again, we at the **apt Group**, are proud to run the Motor Diagnostic Workshop. Joining us this month in Perth, will give you the opportunity to reduce maintenance and energy costs dramatically and increase your plant uptime, by identifying faults early enough to prevent catastrophic failure.*



For its 11th consecutive year the MDW will be held over 5 days, split into Motor Circuit Analysis and Electrical Signature Analysis. This comprehensive, certified training course is designed to improve the Electrical Reliability of an organisations' electrical machines.

International predictive maintenance specialist Bill Kruger, from All-Test Pro, will be presenting the training. Using proven instructional techniques, attained from over 40 years of practical field experience and coaching many Fortune 500 companies, he will provide a comprehensive learning experience that will allow you to quickly and easily identify the issues that plague your Electrical Reliability Program.

The course is designed for anyone interested in improving plant operation from Electrical Trades to Operations Managers. All attendees will benefit, this is guaranteed, whether you own ALL-TEST Pro instruments or use other products!

Learn the fundamental methods & techniques necessary to implement an Electric Motor Management System, improve plant reliability and ensure maximum payback is obtained from equipment investments.

[Click here for more information and registration!](#)



## NEW & IMPROVED ATPOL II and ALL SAFE PRO

**ALL-TEST PRO On-Line II™** is now improved! For complete Electrical Signature Analysis (ESA), it provides superior Analytical Power for AC & DC Motors, Synchronous Motors, Generators & Transformers.

The new instrument enables you to directly connect to electrical motors & generators with an operating voltage up to 1000V. It also allows you to perform multiple motor tests automatically, with setting a "delay" between tests.

The new Arm Processor has improved Bluetooth communication between the instrument and computer. This means faster communication from the instrument & SD card (compatible with SD cards up to 32GB).



The new **ALL-SAFE PRO®**, for greatly increased productivity, is a permanently installed connection system that offers significant advantages over conventional monitoring and measuring of power and motor systems. The new ALL-SAFE Pro Connection Box, not only is it significantly smaller, but it is also rated to 1000V.

The ALL-SAFE PRO® provides the signals necessary to determine the condition of the complete motor system with a minimum of risk, error and trouble. No need to suit up in bulky protection gear. The test set up is fast and the number of tests performed in a day is almost unlimited. The actual sampling takes about one minute.

In addition, using the ALL-SAFE PRO® will eliminate connection errors.

[More info on both instruments can be found here](#)



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## SPM DUOTECH CASE EXAMPLES The Perfect Vibration Sensor!

***Does the perfect vibration sensor exist – we believe it does!***

*It is called the DuoTech transducer  
from SPM Instrument.*

Since launching HD Technology – "Next Generation Vibration Monitoring" back in April this year, we have gathered some good examples of why this innovative technology should be used throughout industry.

For comparison purposes, data collected from a **SPM DuoTech transducer** is

presented next to the data collected from a standard ICP industrial accelerometer generally found in industry.



The DuoTech is a quality "two-in-one" transducer. It can measure both Vibration and Shock Pulse data with the one sensor, allowing the customer to assess both the overall machine condition and the stage of component damage (incl. lubrication condition).

If a Symptom Enhancement Factor (SEF) is applied (patented HD algorithm), this will improve the data quality even further.

The examples provided below speak for themselves!

#### Data from a SPM DuoTech Transducer

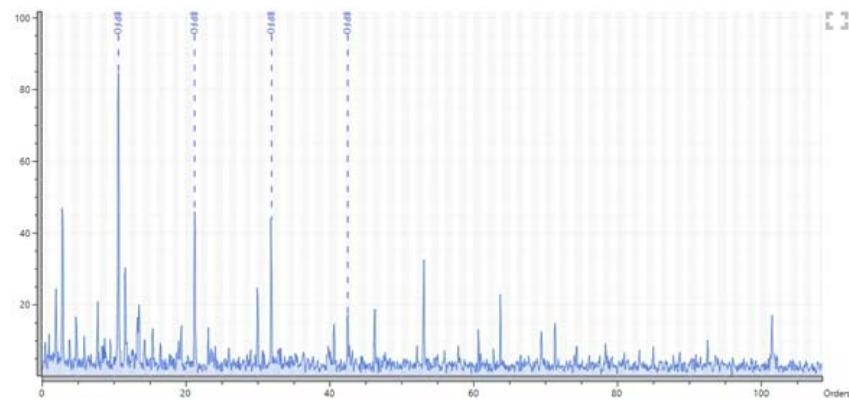


Fig.1 | SPM DuoTech transducer with SEF – clear outer race bearing defects

#### Data from a standard ICP Accelerometer

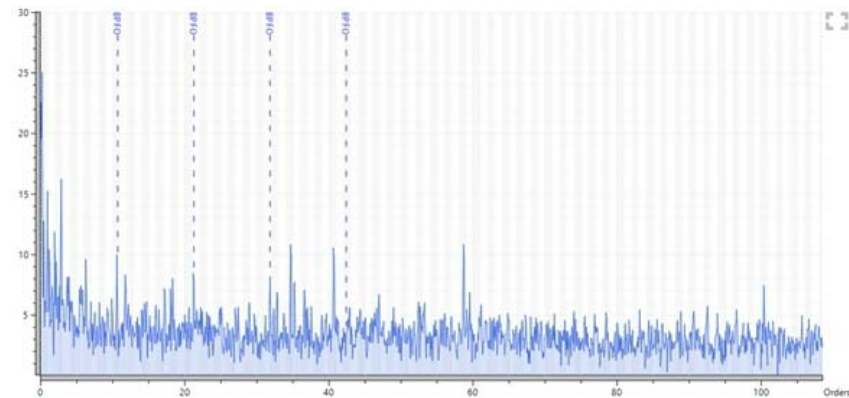


Fig.2 | Standard ICP Accelerometer with SEF – outer race bearing defects just visible

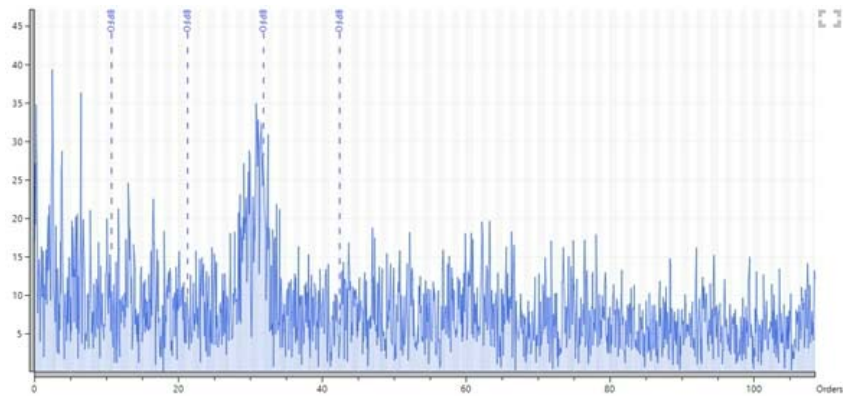


Fig.3 | Standard ICP Accelerometer without SEF – no outer race bearing defects visible

The results are outstanding, clear outer race bearing defects are shown when the DuoTech transducer is used – why would you use anything else?

[More information on DuoTech here.](#)



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## **The apt Group at Work**

### **A sneak peak into our work and field installations**

*We are a project orientated Company, assessing condition monitoring applications and applying the most suitable and innovative technology available on the market.*



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