

# **ALL-TEST Pro, LLC**

## Tools and Technology for PdM testing and Condition Monitoring of Electric Motors



#### **ALL-TEST PRO™ 31 Motor Tester**

The ALL-TEST PRO 31 is a "motor multimeter" designed for off-line troubleshooting motor related problems as well as pre-installation testing.

- Ultra sensitive in detecting inter-turn winding faults when troubleshooting drive trips
- Measures winding impedance to detect phase unbalances (manufacturing or rewind defects).
- Performs the industry's only 60 second rotor test
- "Megs" the motor with 500 or 1000V, direct measurement of up to 500 MΩ
- Tests capacitors

The ALL-TEST *PRO* 31 gives you more information about motor electrical health than any other instrument in its class. Hand-held, easy to use, and enables you "make the call" on the spot. Optional software performs automated diagnostics and lets you save test results for future reference and comparison.



#### ALL-TEST IV PRO 2000 Motor Circuit Analyzer

The ALL-TEST IV *PRO* 2000 is a Motor Circuit Analyzer and data collector, and the most powerful off-line motor diagnostic tool available today. It can be used to evaluate motors of any type, size, or voltage – AC, DC, synchronous, wound rotor, and servo motors, as well as transformers and other coil-based devices.

The ALL-TEST IV *PRO* 2000 is very easy to use. On-screen prompts walk you through the automated test routine, all measurement results are displayed for immediate evaluation. Results can be saved and uploaded into companion software for automated diagnostics as well as trending and reporting. A single two minute test can show poor connections, winding faults, contaminated or overheated insulation, grounded windings, or a motor that is perfectly healthy. Additional tests can pinpoint rotor faults, eccentric air gap, cable faults and more.

The ALL-TEST IV *PRO* 2000 is supplied with a hard carrying case, leads, charger, Trend 2005 software for diagnostics and trending of 3-pnase motors, and a documentation CD. Optional EMCAT *PRO* 2005 software adds work order management, rotor diagnostics, and DC motor and transformer diagnostics.



### ALL-TEST PRO On-Line II Electrical Signature Analysis (ESA) system.

The ALL-TEST *PRO* On-Line II combines a hand held data collector with powerful software to evaluate the electrical and mechanical health of an operating motor system from incoming power quality through the driven load.

ESA uses the motor as a transducer, and performs FFT analysis of both voltage and current (much like vibration analysis). Our software performs automated analysis of the signatures and generates an assessment of eleven key aspects of system health including voltage and current balance and versus name plate, power harmonics and power factor, health of rotor, stator, and air gap, misalignment, and even bearing issues. In addition, load related issues including belts, fans, pumps, gear boxes, etc, can be easily evaluated from a single test record.

A diagnostic report is generated automatically, plus all measurement and spectral data is available for further evaluation. The ALL-TEST *PRO* On-Line II is CE approved and Bluetooth® enabled.

The ALL-TEST *PRO* On-Line II is supplied with 100A and 1000A current sensors, voltage leads and software. It is normally sold as part of our MD package which includes both the ALL-TEST *IV PRO* 2000 and the ALL-TEST *PRO* 31 and EMCAT *PRO* 2005 software. Equipped with this package you have complete insight into any motor system, running or not!

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