

ALL-TEST PRO OL II™



Electrical Signature Analyzer Specifications

The ALL-TEST PRO OL II™ Electrical Signature Analysis instrument sets the standard for modern Current and Voltage Signature Analysis and Power Quality Analysis industry-wide. The system is based upon demodulated current and both voltage and current Fast-Fourier Transforms (FFT) allowing the analyst or technician to view the electrical system both upstream (supply) and downstream (load) from the point of test. The Power Analysis and Electrical Signature Analysis software allows for a complete analysis of the electrical system and is supported with an easy-to-use menu operation and automated data analysis. Test data can be taken remotely using this hand-held instrument or via the instrument's Bluetooth wireless interface by using the computer software in virtual instrument mode. Data is uploaded and analyzed within minutes, either way.



The ALL-TEST PRO OL II™ is the most powerful system on the market and remains hand-held and less than 2 pounds (1 kg). It integrates smoothly with the EMCAT PRO 2005™ Motor Management software.

Capabilities

Power Analysis	Electrical Signature Analysis
<ul style="list-style-type: none">ü Complete harmonic analysis of every cycle of all phases, simultaneouslyü Swell, sag and inrush detection of every half cycle of all phases, simultaneouslyü Transient detection and wave capture on all phases, simultaneously. 8 µSec sampling rate.ü Complete power/energy/cost analysis while simultaneously doing harmonic, swell, sag and transient analysis on all inputsü Compatible with variable frequency drive outputs to systems over 400 Hz and DC powerü Complete logging, triggering and waveform capture capabilityü Harmonic analysis to the 65th on all channelsü Data loggingü Low, medium and high current and voltage probes available to 5,000 Amps and 15 kV.ü 8-10 hours of continuous use from battery	<ul style="list-style-type: none">ü Automatic rotor bar and stator deterioration and severityü Automatic rotor-stator eccentricity characteristicsü Automatic motor speed and slipü Average running current to variation – an indicator of motor torque variationü Power factorü Torsional vibration and dynamic loadingü Automatic misalignment and mechanical unbalanceü Bearing degradation and automatic bearing fault indicationü Current/Voltage variations and THDü Voltage and Current FFT analysisü Current demodulation and analysisü Automated reportingü Does not require nameplate entry prior to data collectionü Motor efficiency calculations

- ü Transformers
- ü AC/DC Generators
- ü AC/DC Electric Motors
- ü Tests Supply through Driven Load
- ü ATPOL automatically senses CT for automatic setup
- ü 2083 samples per cycle at 60 Hz

- ü Comes Standard with 0.1-100 Amp and 1-1000 Amp CT's (four each)
- ü Hall Effect CT available
- ü Flex CT's Available to 5,000 Amps (special order)
- ü Voltage Probes Available to 15kV (special order)

ALL-TEST **PRO** OL II™ Instrument Specs

<ul style="list-style-type: none"> ü Size: 3 3/4" x 7 1/2" x 2" ü Weight: Less than 2 lbs (< 1kg) ü Operating range: 0 – 50 degrees C and relative humidity to 70% ü Power requirement: 12 Vdc @ 500 mA, Up to 10 hours use on full charge ü Voltage: 1-600 Vrms steady state (higher for special applications); 1-6 megavolt display range (using input ratios); 0.1% Accuracy; Repetition Rate – Measure every cycle of every input ü Current: 0.01 – 5,000 Amps, AC or DC with proper CT attached; 1mA – 6 Megamps (using input ratios); 0.1% plus accuracy of current probe; Repetition rate – Measure every cycle of every input. ü Harmonic Distortion: Out to 65th range; 1% accuracy of fundamental 	<ul style="list-style-type: none"> ü Frequency: 0.25% accuracy for <ul style="list-style-type: none"> o DC, 22 – 200 Hz, 360 – 440 Hz fundamental frequency ü Power, Energy, Cost, Power Factor: 1Watt to 60MW display range; 0.5% accuracy plus accuracy of CT ü Swell/Dip Detection: Repetition Rate is measured every half cycle of every input ü High Speed Transient Detection: Measured every 8 µSec on every input ü Quantity of Captured Waveforms – 20 tests, unlimited using removable storage memory cards
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Current Transformers

	0.1 – 100 Amp CT (4 included)	1 – 1000 Amp CT (4 included)
Specifications	0.1 to 100 Amps RMS AC Current measurement	1.0 to 1,000 Amps RMS AC Current measurement
Accuracy	+/- 2% of reading, +/- 0.2 Arms including the accuracy of the instrument	+/- 0.5% of reading +/- 0.2 Arms for currents below 400 Amps or +/- 2 Arms for currents from 400 A to 1000 A including the accuracy of the instrument
Dimensions	Inside – 0.8 inch diameter Outside – 5.25" x 2.1" x 1.35" Cable Length – 2 meters (6.5 feet)	Inside – 2.13 inch diameter Outside – 8.1" x 4.1" x 1.54" Cable Length – 2 meters (6.5 feet)

Safety

CE for 600V CAT IV, pollution degree II, Double Insulated

Warranty

Two (2) year limited warranty

For More Information
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