ALL-TEST PRO 5™ Complete Motor Circuit Analysis with One Hand-Held Instrument

Predictive Maintenance of Electric Motors... Made VERY Easy!

Quality Assurance
New motors of any size can be defective. Health of spares “on the shelf” is often unknown. A 2-minute test can ensure that your motor is healthy. Testing new and spare motors before installation provides peace of mind that what you are installing is going to run properly, plus you gain a baseline test for future comparison. Use the AT5™ to:

- Test incoming motors before putting them on the shelf
- Test failed motors before spare motor repairs needed
- Test repaired motors as final QC check before reintroducing to inventory

Troubleshooting
If the motor system stops running, the ALL-TEST PRO 5™ evaluates the connections, cable and motor right from the starter, VFD or disconnect. This instrument will take the guesswork out of determining if you have a Mechanical or Electrical problem.

Post-Sales Training and Service
ALL-TEST PRO, LLC services the market through several channels, including regional offices, national and international agents, US and Canada Manufacturer’s Representatives and, depending on the product, specialty distributors and catalogs. Our technical training is performed worldwide and our customer support group is available on short notice.

ALL-TEST PRO 5™ Specifications

Test Frequencies
- 50, 100, 200, 400, 800 Hz

Test Voltage Value / Reference Voltage Value
- 0.01-10000 μV, 1% (ratiometric and calibrated value)

Starter Test Dynamic
- Repeatability ±0.1% of measured data and calibrated value

Rotor Test Dynamic
- Repeatability ±0.1% of measured data and calibrated value

Resistance
- 2.5 Ω measurement range
- 0.1-5000 Ω, Max Resolution: 0.01 Ω
- 501-10000 Ω, Max Resolution: 1 Ω
- 10001-100000 Ω, Max Resolution: 10 Ω
- Relative Accuracy “Phase to Phase” ± 0.1% ±1.0% (true milliohms)

Impedance
- 0.1-5001 ±0%, Max Resolution: 0.1 Ω
- Relative Accuracy “Phase to Phase” ± 0.1%

Capacitance (frame – stator)
- 2-2000 nF measurement range; 10-2000 nF ±5%

Dissipation Factor - DF (frame – stator)
- Relative Accuracy “Phase to Phase” ± 0.1%

Insulation Resistance
- 2-2000 nF measurement range; 10-2000 nF ±5%

Phase Angle □
- 1-90° ±1°, Max Resolution: 0.1°
- Relative Accuracy “Phase to Phase” ± 0.1°

Inductance
- 1-200 mH measurement range
- Relative Accuracy “Phase to Phase” ± 0.2%
- 0.1-999 mH ±2%, all other values ±3%

Impedance
- True 4-wire Kelvin measurement
- Relative Accuracy “Phase to Phase” ± 0.1%

Rotor Test Dynamic
- Repeatability ±1% (true milliohms)

Stator Test Dynamic
- Repeatability ±0.1% (true milliohms)

Test Value Static / Reference Value Static
- 50, 100, 200, 400, 800 Hz
- 0.01-10000 μV, 1% (ratiometric and calibrated value)

Patent-Pending
- ROUTE-BASED TESTING
- TROUBLESHOOTING
- QUALITY CONTROL
- PREDICTIVE MAINTENANCE

Connections
- All motor troubleshooting and protection requires easy:
  - high voltage motor 50-600 VAC safety jack
  - high voltage motor 50-600 VDC safety jack
  - Charge input 2.5mm diameter center pin DC jack

Display
- Graphic LCD, monochrome 128 x 128 pixels (3.3”) while 63x32

Temperature Range
- Storage: 0°C to 50°C (+32°F to +122°F)
- Operating: -10°C to 50°C (+14°F to +122°F)

Humidity
- 0-95% relative humidity, non-condensing

Safety
- CE/EN61010-1 3rd Edition Certification

EMC
- IEC: EN61326-1
- Immunity: EN61000-4-2, EN61000-4-3, EN61000-4-6

Calibration Certificate
- Optional (contact nearest distributor for more information)

Batteries
- Li-ION cells with ≥2100 mAH capacity, UL 1642 (Safety)

Enclosure
- 8” x 5” x 2” (203 x 127 x 51mm)

Humidity
- 95% RH @ 40°C (90°F) non-condensing

Temperature Range
- Operating: 0°C to 50°C (+32°F to +122°F)
- Storage: -20°C to 60°C (+4°F to +140°F)

Display
- Graphics LCD, monochrome 128 x 128 pixels (3.3”)

Software
- MCA PRO™ Software; Training Demo Motor, Test Leads: 3x
- Basic carrying pouch for instrument and test leads; Accessories NOT Included
- MCA BASIC™ Software (Windows 7, 8 & 10, 32-bit):
  - Available in English, Spanish, Chinese and Portuguese
  - USB cable: Fmi
  - 2x Dedicated and rugged hard cases with pre-cut turner handles

Patient-Pending
- Warranty: 1 year limited warranty: Optional 3 years available with calibration

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P.O. Box 1139
Old Saybrook, CT 06475
Tel 860-399-4222
Fax 860-399-3180
Email info@alltestpro.com
Web www.alltestpro.com

www.alltestpro.com

ALL-TEST PRO 5™ COMPLETE MOTOR CIRCUIT ANALYZER

ALL-TEST Pro, LLC is a trademark of ALL-TEST Pro, LLC. Specifications subject to change without notice. © ALL-TEST Pro, LLC 2015 All rights reserved.
With the ALL-TEST PRO 5™

- Versatile
  - Analyzes complete stator and rotor health on all types and sizes of motors, transformers, and generators – induction, synchronous, AC, DC, and more.

- Sensitive
  - Detects faults at their earliest stages before motor failure, including deteriorating or contaminated insulation, as well as "deep" winding faults.

- Fast
  - Testing only takes a few minutes. An auto diagnosis within the instrument will provide an immediate motor health status report.

- Convenient
  - Tests can be taken from the motor control center and from distances of over 1,000 feet away – ideal for hard-to-reach motors.

- Comprehensive
  - Expert software provides fault diagnosis and trending of all data.

- Lightweight and Hand-Held
  - Battery-powered, hand-held and weighing less than 2 lbs., the AT5™ can be easily carried by one person to test motors of all sizes – no carts or additional equipment needed.

Data Collection With Companion Software For PdM

- With a storage capacity of more than 600 tests, the ALL-TEST PRO 5™ has specific motor trending data accessible at the touch of a button. Results are linked to your computer and our MCA Basic™ software provides expert diagnosis, trending, and a wide variety of printed or on-screen reports. Software is available for individual or group users.

- Reporting
  - Testing From The Motor Control Center
    - Motors and other equipment can be tested through the test – no user manual needed. In just a few minutes, anyone can learn to use it!

- On The Spot Diagnosis For Troubleshooting
  - ALL-TEST PRO 5™ results are immediately displayed for field evaluation. Our quick reference guide helps you make the call on the spot. Answer the mechanical "question" immediately and rule the motor "in" or "out".

- Rapid Evaluation of the Entire Motor Circuit
  - Immediate and complete information on Status of Stator, Rotor, Connections, Contamination and Ground Faults. A single, 2-minute test evaluates the windings, wiring, and connectors. Additional tests let you evaluate the rotor and cabbing to pinpoint the fault.

- Testing of AC and DC Motors, Transformers & Generators
  - The ALL-TEST PRO5™ tests all types of motors, including induction, synchronous, AC, DC, brushless DC, servo and wound rotors, as well as single phase motors. The health of all motor components is evaluated, including, but not limited to: induction windings and rotors, DC fast windings and armatures; and field rotor and stator coils in synchronous motors.

- Transformer & Generators
  - Additional tests let you evaluate the rotor and cabling to pinpoint the fault. Tests can be taken from the motor control center and from distances of over 1,000 feet away – ideal for hard-to-reach motors.

Motor Diagnostics for Troubleshooting

- For condition monitoring, all measurements can be trended and recalled on the instrument to instantly show you any developing problems or changes with the rotor and stator. Access to the software is not required.

- Testing only takes a few minutes. An auto diagnosis within the instrument will provide an immediate motor health status report.

Motor Test for Predictive Maintenance

- Automatic Test Mode
  - An automatic test mode is used for most tests. On-screen prompts walk you through the test – no user manual needed. In just a few minutes, anyone can learn to use it!

- MCA Basic™
  - MCA Basic™ software provides expert diagnosis, trending, and a wide variety of printed or on-screen reports. Software is available for individual or group users.

- MCA PRO™
  - MCA PRO™, designed for use with the ALL-TEST PRO 5™ analyzer/data collection instrument, performs analysis on uploaded raw test data from other technologies like infrared.

- Also available: MCA PRO™ Motor Circuit Analysis Software
  - Upgrading to ALL-TEST Pro’s MCA PRO™ Software adds:
    - * Software available in English, Spanish, Chinese and Portuguese.

- Enterprise Edition for Multiple Users
  - New: MCA PRO™ Motor Circuit Analysis Software
  - MCA Basic™ Three-Phase Analysis
  - MCA PRO™ Three-Phase Motor Trend

- Motor Circuit Analysis Software

- MCA Software for Predictive Maintenance
  - Troubleshooting and Condition Monitoring of Electric Motors, Generators and Transformers

- ALL-TEST Pro’s MCA Basic™ Software:
  - Allows you to organize and manage test results and records:
    - Provides trending and diagnostics for 3-phase and 1-phase AC motors
    - Sets up complete databases for plant and motor nameplate data
    - Test and trend analysis reports saved as PDF, Word and other file formats for transmission or printing including
      - MCA Basic™ is included with the ALL-TEST PRO 5™ and is upgradeable to MCA PRO™ Software (see below)

- ALL-TEST PRO 5™ Features

- Reference Test (TVS™)
  - An initial baseline test is performed using the Test Value Static (TVS™). Results are stored in the ALL-TEST PRO 5™ and subsequent test results can be immediately recalled on the instrument to instantly show you any developing problems or changes with the rotor and stator. Access to the software is not required.

- Automatic Test Mode
  - An automatic test mode is used for most tests. On-screen prompts walk you through the test – no user manual needed. In just a few minutes, anyone can learn to use it!

- On The Spot Diagnosis For Troubleshooting
  - ALL-TEST PRO 5™ results are immediately displayed for field evaluation. Our quick reference guide helps you make the call on the spot. Answer the mechanical "question" immediately and rule the motor "in" or "out".

- Rapid Evaluation of the Entire Motor Circuit
  - Immediate and complete information on Status of Stator, Rotor, Connections, Contamination and Ground Faults. A single, 2-minute test evaluates the windings, wiring, and connectors. Additional tests let you evaluate the rotor and cabbing to pinpoint the fault.

- Testing of AC and DC Motors, Transformers & Generators
  - The ALL-TEST PRO5™ tests all types of motors, including induction, synchronous, AC, DC, brushless DC, servo and wound rotors, as well as single phase motors. The health of all motor components is evaluated, including, but not limited to: induction windings and rotors, DC fast windings and armatures; and field rotor and stator coils in synchronous motors.

- Transformer & Generators
  - Additional tests let you evaluate the rotor and cabling to pinpoint the fault. Tests can be taken from the motor control center and from distances of over 1,000 feet away – ideal for hard-to-reach motors.

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Significantly Increase Your Plant’s Profitability with the ALL-TEST PRO 5™

Versatile
Analyses complete stator and rotor health on all types and sizes of motors, transformers and generators – induction, synchronous, servo, AC, DC and more.

Sensitive
Detects faults at their earliest stages before motor failure, including deteriorating or contaminated insulation, as well as ‘deep’ winding faults.

Fast
Testing only takes a few minutes. An auto diagnosis within the instrument will provide an immediate motor health status report.

Convenient
Tests can be taken from the motor control center and from distances of over 1,000 feet away – ideal for hard-to-reach motors.

Lightweight and Hand-Held
Battery-powered, hand-held and weighing less than 2 lbs., the AT5™ can be easily carried by one person to test motors of all sizes – no carts or additional equipment needed.

Data Collection With Companion Software For Pdm
With growing storage capacity of more than 650 tests, the ALL-TEST PRO 5™ has specific motor trending data accessible at the touch of a button. Motors can be grouped by type or year, and our MCA Basic™ software provides expert diagnosis, trending, and a wide variety of printed or on-screen reports. Software is available for individual or group users.

Testing From The Motor Control Center
MCA Basic™ is included with the ALL-TEST PRO 5™ to create a powerful tool for troubleshooting and managing 3-phase motors. The database is designed to reflect all organize nameplate information of your motors. For a machine shop located in an organization, you can group them by building name and location.

Motor Diagnostics for Troubleshooting
Our quick reference guide helps you make the call on the spot. Answer the mechanical / electrical question immediately and rule the motor “in” or “out”. You can even record test data from other technologies like infrared.

Motor Trending for Predictive Maintenance
For condition monitoring, all measurements can be trend graphed. Increasing unbalances give you advance indication of data trending conditionally. Planning for repair and avoiding unnecessary down time saves money and aggravation.

Scheduling and Review
For scheduling purposes, MCA Basic™ allows you to review motors to be tested by date and then record completed work. For additional information, you can group them by building or process; for a service organization, you can group them by customer name and imported equipment and rotor tests using proprietary algorithms. Provides snap-shot diagnostics and trending for all motors.

The ALL-TEST PRO 5™ includes:
• 3x Test Leads with custom heavy-duty Kelvin clips and push-pull connectors
• 1x Test Lead with 4mm safety plug and MC “Dolphin” clip
• MCA Basic™ Software (Windows 7, 8, 10, 84 bit)
• Durably rugged hard case with pre-cut foam liner
• User manual on CD

ALL-TEST PRO 5™ Features

Reference Test (TVS™)
An initial baseline test is performed using the Test Value Static (TVS™). Results are stored in the ALL-TEST PRO 5™ and subsequent test results can be immediately recalled on the instrument to instantly show you any developing problems or changes with the rotor and stators. Access to the software is not required.

Automatic Test Mode
An automatic test mode is used for most tests. On-screen prompts walk you through the test – no user manual needed. In just a few minutes, anyone can learn to use it!

On The Spot Diagnosis For Troubleshooting
ALL-TEST PRO 5™ results are immediately displayed for field evaluation. Our quick reference guide helps you make the call on the spot. Answer the mechanical/electrical question immediately and rule the motor “in” or “out”.

Rapid Evaluation of the Entire Motor Circuit
Immediate and complete information on Status of Stator, Rotor, Connectors, Contamination and Ground Faults. A simple, 2-minute test evaluates the windings, cabling, and connectors. Additional tests let you evaluate the rotor and cabling to pinpoint the fault.

Testing of AC and DC Motors, Transformers & Generators
The ALL-TEST PRO 5™ tests all types of motors, including induction, synchronous, AC, DC, brushless DC, servo, wound and wound rotors, as well as angle phase motors. The health of all motor components is evaluated, including, but not limited to: induction windings and rotors, DC fast windings and armatures; and field and rotor cogs in synchronous motors.

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Motor Circuit Analysis PRO™ (MCA PRO ™ ) is a user-friendly, intuitive advanced software for total motor system maintenance and management. MCA PRO™ is the industry’s most powerful tool for analysis, including trending, reporting, forecasting and maintenance scheduling. MCA PRO™ allows you to group motors by type and location.

MCA Basic™ combines with the ALL-TEST PRO 5™ to create a powerful tool for troubleshooting and managing 3-phase motors. The database is designed to reflect all organize nameplate information of your motors. For a machine shop located in an organization, you can group them by building name and location.

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with the NEW ALL-TEST PRO 5™

- Versatile:
  - Analyzes complete stator and rotor health on all types and sizes of motors, transformers and generators – induction, synchronous, servo, AC, DC and more.
- Sensitive:
  - Detects faults at their earliest stages before motor failure, including deteriorating or contaminated insulation, as well as ‘deep’ winding faults.
- Fast:
  - Testing only takes a few minutes. An automatic test mode is used for most tests. On-screen prompts walk you through the test – no user manual needed. In just a few minutes, anyone can learn to use it.
- Convenient:
  - Tests can be taken from the motor control center and from distances of over 1,000 feet away – ideal for hard-to-reach motors.
- Lightweight and Hand-Held:
  - Lightweight and hand-held AT5™ can be easily carried by one person to test motors of all sizes – no carts or additional equipment needed.

ALL-TEST PRO 5™ Features

- Reference Test (TVS™):
  - An automatic test mode is used for most tests. On-screen prompts walk you through the test – no user manual needed. In just a few minutes, anyone can learn to use it!
- On The Spot Diagnosis For Troubleshooting:
  - ALL-TEST PRO 5™ results are immediately displayed for field evaluation. Onthe spot diagnosis for troubleshooting and repair is as simple as pressing a button. Test results are easily uploaded to your computer and our MCA Basic™ Software provides expert diagnosis, trending, and a wide variety of printed or on-screen reports. Software is available for individual or group users.
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Motor Circuit Analysis Software

Motor Circuit Analysis Software

MCA Software for Predictive Maintenance, Troubleshooting and Condition Monitoring of Electric Motors, Generators and Transformers

ALL-TEST Pro’s MCA Basic™ Software:

- MCA Basic™ is included with the ALL-TEST PRO 5™ and is upgradeable to MCA PRO™ Software (see below).

ALL-TEST PRO 5™ combining with your MCA Basic™ or MCA PRO™ will create a powerful tool for troubleshooting and managing 3-phase motors.

MCA Basic™ features:

- Provides trending and diagnostics for 3-phase and 1-phase AC motors
- Sets up complete databases for motor and plant nameplate data
- Test and trend analysis reports saved as PDF, Word and other file formats for transmission or printing
- An automatic test mode is used for most tests. On-screen prompts walk you through the test – no user manual needed. In just a few minutes, anyone can learn to use it!
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Use the AT5™ to:
- Test incoming motors before putting them on the shelf
- Test failed motors to determine if repairs needed
- Test repaired motors as final QC check before reintroducing to inventory

Troubleshooting
If the motor system stops running, the ALL-TEST PRO 5™ will evaluate the connections, cable and motor right from the starter, VFD or disconnect. This instrument will take the guesswork out of determining the cause of the problem but may have a Mechanical or Electrical problem.

Post-Sales Training and Service
ALL-TEST, LLC services the market through several channels, including regional offices, national and international independent agents, US and Canada Manufacturer’s Representatives and, depending on the product, specialty distributors and catalogs. Our technical training is performed worldwide and our customer support group is available on short notice.

ALL-TEST PRO 5™ Motor Circuit Analyzer

ALL-TEST PRO 5™ Specifications

<table>
<thead>
<tr>
<th>Test Frequencies</th>
<th>+5, +10, 200, 400, 800 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Value Static</td>
<td>+3.0 +0.005pF ±0.12%</td>
</tr>
<tr>
<td>Ref Value Static</td>
<td>+3.0 +0.005pF ±0.12%</td>
</tr>
<tr>
<td>Resistance</td>
<td>+0.0 +10% ±0.5% (if measured data and calculated deviation)</td>
</tr>
<tr>
<td>Rotor Test Dynamic</td>
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- 0.01-1000 V ±2% (Simultaneous colored coded value)

Stator Test Dynamic
- Repeatability ±2% of measured data and colored coded value

Rotor Test Dynamic
- Repeatability ±2% of measured data and colored coded value

Resistance
- ≤ 2.0 Ω no load measurement range
- ≤ 0.058 Ω, Max Resolution: 0.01 mΩ
- ≤ 0.0005 Ω, ±10% at at all other values ≤ 5 Ω

Inductance
- ≤ 1000 mH max measurement range
- ≤ 50 mH ±10% at at all other values

Phase Angle
- ≤ 180° max measurement range

Dissipation Factor - DF (frame – stator)
- 0-100% ±5% (C = 10-1000 nF) ±1.0% ( ≥ 1 kF)
- Relative Accuracy “Phase to Phase” ± 0.1%

Capacitance (frame – stator)
- 2-2000 nF measurement range; 10-2000 nF ±5% (≥ 1 kF)
- Relative Accuracy “Phase to Phase” ± 0.1%

Dissipation Factor - DF (current/frequency)
- 0-100% ±5% (C = 10-1000 nF) ±1.0% ( ≥ 1 kF)
- Relative Accuracy “Phase to Phase” ± 0.1%

Inductance
- 0.1-999 mH measurement range
- ±2%, Max Resolution: 0.01 mH

Humidity
- 0-95% relative humidity

Temperature Range
- Storage: -40°F to 125°C (+4°F to +257°F)
- Operating: -10°C to 60°C (+14°F to +140°F)

All-Test PRO 5™ Complete Electric Motor Circuit Analyzer

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