

ALL-TEST PRO 34™

PATENTED TECHNOLOGY

MCA™ | TVS™ | DYNAMIC STATOR AND ROTOR SIGNATURES



Get the motor health data you need to make a quick and informed decision.

SPECIFICATIONS

Measurement	Accuracy and Measurement Range	Max Resolution	Relative Accuracy (Phase to Phase)
Test Frequency	50, 100, 200, 400, 800 Hz		
Test Value Static™ (TVS™)	0.01 – 10,000 ± 1% (Dimensionless calculated value)		
Stator Test Dynamic	Repeatability ± 1% (of measured data and calculated deviations)		
Rotor Test Dynamic	Repeatability ± 2% (of measured data and calculated deviations)		
Resistance	0.01Ω – 0.1Ω ±(1% of the range full scale +1 digit)	0.01mΩ or one digit (whichever is greater)	± (1% of measured value +1 digit)
	0.1Ω – 99.9Ω ±(1% of measured value+1 digit)	1 mΩ or one digit (whichever is greater)	± (0.1% of measured value +1 digit)
	100Ω – 500Ω ±(1.5% of measured value +1 digit)	1Ω	± (0.1% of measured value +1 digit)
	501Ω – 999Ω ±(2.5% of measured value +1 digit)	1Ω	± (0.1% of measured value +1 digit)
	True 4-wire Kelvin measurement (Compensation for thermoelectric offset voltages)		
Dissipation Factor - DF (frame - stator)	1% – 100% total range (expressed as a percentage)		
	1% – 10% ± 0.75% (C = 10 – 1,000 nF)		
	1% – 10% ± 1.0% (all other values of C within range 2 – 2,000 nF)		
	10% – 30% ± 1.0% (this specification is based on battery operation and USB not connected to PC)		
Capacitance (frame - stator)	2 – 2,000 nF total range		
	10 – 2,000 nF ± 5% (this specification is based on battery operation and USB not connected to PC)		
Insulation Resistance	0 – 5000 MΩ total range @ 500 V or 1,000 V		
	1 – 999 MΩ ± 3%		
	All other values ± 5%		

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CERTIFICATION SPECIFICATIONS

Certification CE
Safety IEC 61010-1 3rd Edition
Calibration Certificates Optional (contact distributor for details)
EMC Emission: EN61000-6-4 Immunity: EN61000-6-2, EN61000-4-2, EN610000-4-3

EQUIPMENT OPERATING RANGE SPECIFICATIONS

Storage Temperature Range -20 °C – +55 °C (-4 °F – +131 °F)
Operating Temperature Range -10 °C – +50 °C (+14 °F – +122 °F)
Humidity 0 – 80% relative humidity, non-condensing

HARDWARE SPECIFICATIONS

Enclosure Size (W x L x H) 126 x 218 x 51 mm (5" x 9.6" x 2") (basic enclosure size without minor protrusions)
Enclosure Material Polycarbonate, UL94 V-0 (Flammability)
Enclosure Weight 0.7 kg (1.55 lb)
Batteries 2x Li-ION cells with ≥ 2100 mAH capacity, UL 1642 (Safety)
Display Graphic LCD, monochrome 128 x 64 pixels (3.1"); white LED backlight
Keyboard Sealed tactile switches with backlight overlay
Connections 3x Motor input/output: push-pull connectors 4-pole High-voltage output: Ø 4 mm safety jack PC communication: USB type B connector Charger input: 2.5 mm diameter center pin DC-jack
Internal Memory Stores up to 500 test and REF records

INCLUDED ACCESSORIES

Test Leads 3x with small Kelvin Clips and push-pull connectors 1x with 4 mm safety plug and MC "Dolphin" clip
Charging Adapter Universal input type 100 - 240 VAC, output 9 V DC @ 1.7 A
Software Refer to software specification sheet ALL-TEST 34™ - MCA Basic™ Software
Languages Available in English, Spanish, Chinese, and Portuguese
PC Communication 1x USB cable (1 meter)
Carrying Case Durable and rugged hard case with pre-cut foam liner

SUGGESTED ACCESSORIES (NOT INCLUDED)

Carrying Pouch Contact distributor for options Soft carrying pouch for instrument and test leads
Software Refer to software specification document MCA PRO™ Enterprise Software
Training Demo Motor Contact distributor for options
Test Leads Contact distributor for options 3x with heavy duty Kelvin Clips and push-pull connectors 1x with 4 mm safety plug

MISC

Warranty 1 Year Limited with optional 2 Year with calibration
Trademark ALL-TEST PRO 34™ is a trademark of ALL-TEST Pro
Patent Pending

REPRESENTED BY

The ALL-TEST Pro Promise

ALL-TEST Pro delivers on **the promise of true predictive maintenance and troubleshooting**, with innovative diagnostic tools, software, and support that enable you to keep your business running. We ensure the reliability of motors in the field and help to maximize the productivity of maintenance teams everywhere, backing every ALL-TEST Pro product with unmatched motor testing expertise.

ALL-TEST Pro

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LEARN MORE AT ALLTESTPRO.COM

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AT34PRO-V1 - Specifications are subject to change without notice.