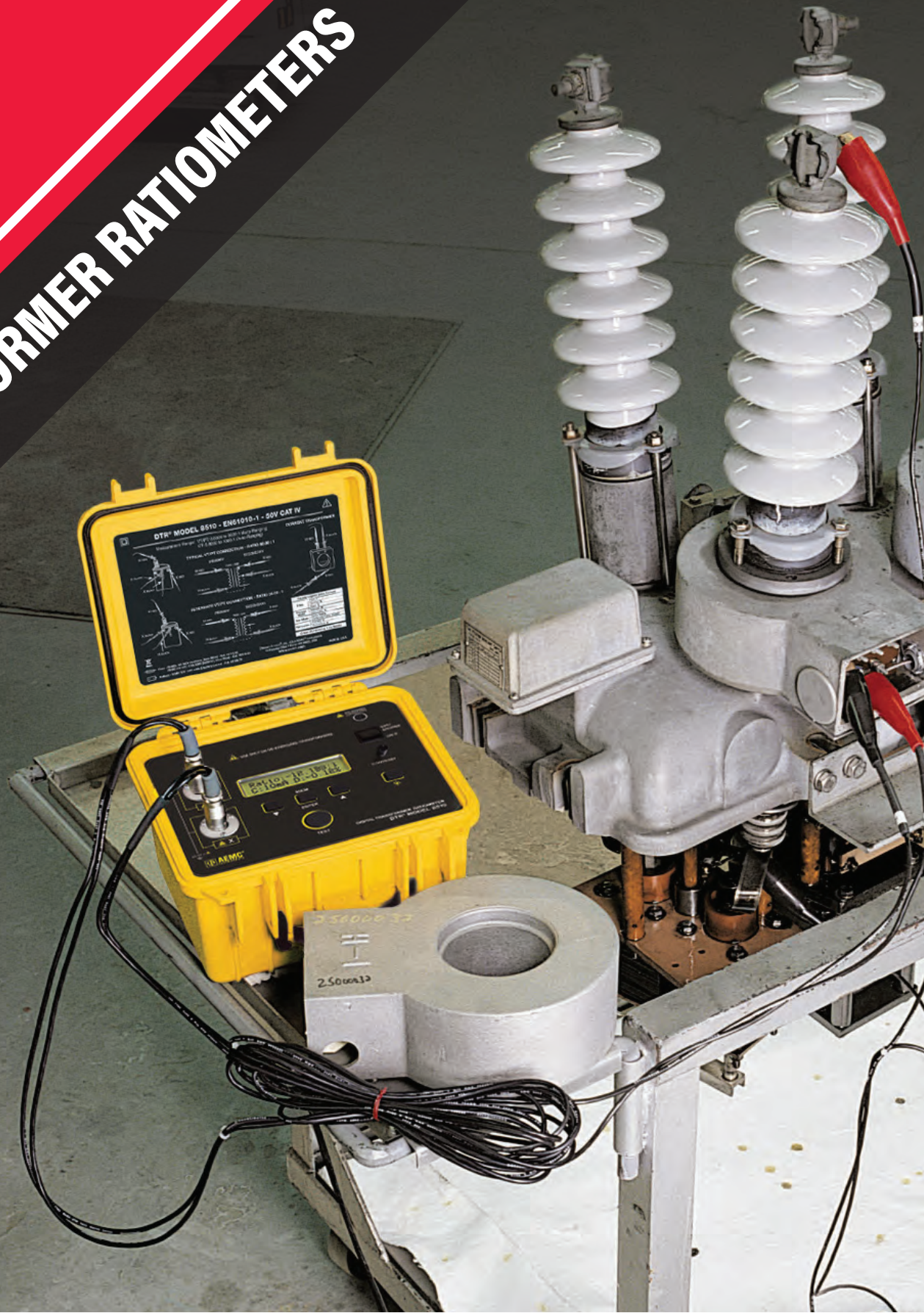


TRANSFORMER RATIO METERS



TRANSFORMER RATIO METERS

QUICK TESTER MODEL 8505

Designed to check the basic integrity of power transformers and capacitors



SPECIFICATIONS

MODEL	8505
ELECTRICAL	
Short	<20Ω
Open	>20Ω
Transformer	>1mh
Capacitor	0.5µf to <1mf
Power Source	4 x 1.5V AA (LR6) Alkaline batteries (included)
Battery Life	More than 2500 ten second tests on a full charge
Low Battery Indicator	Red LED blinks; approximately 100 tests can be conducted when LED starts to blink
MECHANICAL	
Dimensions	7.2" x 3.65" x 1.26" (182.9 x 92.7 x 32mm) w/o leads
Weight (with battery)	14.4oz (408g)
Case	UL94
Vibration	IEC 68-2-6 (1.5mm, 10 to 55Hz)
Shock	IEC 68-2-6 (1.5mm, 10 to 55Hz)
Drop	IEC 68-2-32 (1m)
ENVIRONMENTAL	
Operating Temperature	14° to 122°F (-10° to 50°C)
Storage Temperature	-4° to 140°F (-20° to 60°C)
Relative Humidity	0 to 85% @ 95°F (35°C), non-condensing
Altitude	2000m
SAFETY	
Safety Rating	EN61010-1; 50V CAT IV
Environmental	IP30

Reference Conditions: 23°C ±3°C, 30-50% RH, battery voltage: 4.5V ±10%.



FEATURES

- Checks coil continuity on single- and three-phase transformers
- Detects open or shorted coils and capacitors
- Detects switch open and closed positions
- Automatically identifies device as a transformer or capacitor
- Single button operation
- Bright LED indicators and buzzer for T and C
- Coiled captive test lead extends to 6ft each
- Test probe with 5.75" (146mm) shaft ideal for insertion into protective shroud to reach test point
- Multi-frequency source signals improves test reliability and accuracy
- Microprocessor based design for control, stability and repeatability
- Built-in self-test for inductance and capacitance
- Fuse protected
- Battery operated; more than 2500 tests on a full charge
- Low battery indicator begins to blink when capacity of ~100 tests remain

CATALOG NO.	DESCRIPTION
2136.51	Quick Tester Model 8505

TRANSFORMER RATIOMETERS

DTR® MODEL 8510

Designed for on-site testing of power, potential and current transformers



cover closed

FEATURES

- Measures power transformers, VT/PTs and current transformer CT turns ratios
- Displays turn ratio, excitation current, winding polarity and % deviation from the nameplate values
- Universal voltage (90-240V supply, 50-60Hz) via external smart/fast battery charger; complete charge in less than 4 hours
- Two internal NiMH batteries provide up to 10 hours of continuous operation
- Tests performed by exciting the primary and reading the secondary; provides safer conditions for the operator
- Display warns of incorrect lead connection, reverse polarity, open and short circuits
- Easy connection and test setup; no calibration or balancing required
- Large dual display with adjustable contrast ensures clearer visibility in any lighting environment day or night
- Low battery indicator
- Includes 15 foot lead set and soft carrying bag
- Stores up to 10,000 test results in internal memory
- USB port facilitates configuring the instrument and downloading test results
- Includes FREE DataView® analysis software for programming, downloading, storing and report generation of test data
- N 61010-1; 50V CAT IV

SPECIFICATIONS

MODEL	DTR® 8510
VT/PT Ratio Range	Auto-Ranging 0.8000:1 to 8000:1
CT Ratio Range	Auto-Ranging 0.8000 to 1000.0
Accuracy*	Ratio <10 to 1: ±0.2% of Reading Ratio 0 to 1000 to 1: ±0.1% of Reading Ratio >1000 to 1: ±0.2% of Reading Ratio 5000 to 8000.0: ±0.25% of Reading
Excitation Signal	VT/PT Mode: 32Vrms maximum CT Mode: 0 to 1A, 0.1 to 4.5Vrms
Excitation Current Display	Range: 0 to 1000mA; Accuracy: ±2% of Reading ±2mA
Excitation Frequency	70Hz
Measurement Method	In accordance with ANSI/IEEE C57.12.90™-2006
Display	LCD 16 character, 2 line, large format, LED backlight, day/night visible
Languages Supported	English, Spanish, French, Italian, German, Portuguese
Communication	Optically isolated USB 2.0
Data Storage	Stores up to 10,000 complete measurements
Power Source	Two rechargeable 12V NiMH batteries (included)
External Charger	90/240V, 50/60Hz (smart charger)
Battery Life	Up to 10 hours continuous operation; May not be used while recharging; Low battery LED/LCD indication
Charging Time	<4 hours

*23°C ±5°C, 50 to 70% RH, full battery charge, no external fields or noise.

PRODUCT INCLUDES



NiMH batteries (installed), 115V power cord, set of two 15ft leads, 2 red & 2 black alligator clips, 10ft USB cable, external battery charger (90-264Vac, 50/60Hz) and soft carrying case.

USB DRIVE

Supplied with DataView® software and user manual.

CATALOG NO.	DESCRIPTION
2136.50	Digital Transformer Ratiometer DTR® Model 8510
2136.76	Lead-Set of 2, 30ft for use with DTR® Models 8500 & 8510
2136.77	Lead-Replacement set of 2, 15ft for use with DTR® Models 8500 & 8510