

# TRANSFORMER RATIO METERS

## DTR® MODEL 8510

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

### 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 0.8000 to 9.9999 ±0.2% of Reading Ratio 10.000 to 999.99 ±0.1% of Reading Ratio 1000.0 to 4999.9 ±0.2% of Reading Ratio 5000.0 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
<b>SAFETY</b>	
Safety Rating / IP	EN 61010-1; 50V CAT IV / IP54 (cover closed)

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

Consult factory for NIST Calibration prices

### PRODUCT INCLUDES

Soft carrying case, set of (2) 15 ft black leads, set of (2) color-coded (red/black) alligator clips, 10 ft USB cable, external battery charger (90-264Vac, 50/60Hz), NiMH batteries (installed), 115V power cord, and USB drive with DataView® software and a user manual.



DataView®



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; completely 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
- Stores up to 10,000 test results in internal memory
- USB port facilitates configuring the instrument and downloading test results
- Includes DataView® analysis software for programming, downloading, storing and report generation of test data

### ACCESSORIES/REPLACEMENTS

#### CATALOG #2136.76

Set of (2) leads, 30 ft for DTR®

#### CATALOG #2136.77

Set of (2) leads, 15 ft for DTR®  
(Replacement)



### CATALOG NO. DESCRIPTION

2136.50 Digital Transformer Ratiometer DTR® Model 8510 (110/220V)



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