TRANSFORMER RATIOMETERS

DTR® MODEL 8511

IP 53 cover closed

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



DataView®

MODEL	DTR® 8511
ELECTRICAL	
VT / PT Ratio Range	Auto-Ranging 0.8000:1 to 8000.0:1
VT / PT Accuracies*	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 Current	Up to 2 A
CT Ratio Range	Auto-Ranging 0.8000 to 1000.0
CT Accuracy*	± 0.5 % of Reading
Output Voltage (VT / PT)	30 V @ 64 Hz
Output Voltage (CT)	2 V @ 64 Hz
Display	LCD 20 characters × 4 line display
Languages Supported	English, Spanish, French, Italian, German, Portuguese
Communication	USB Type-A to Type-C USB 2.1
Data Storage	9801 measurements
Power Supply	USB Type-C and 12 VDC charger
Measurement Method	In accordance with IEEE Std. C57.12.90™
Buttons	6 total buttons *(one to start testing and five for navigation)*
Battery Life	500 VT / PT tests
Battery Charge Time	10 h *(see user manual for full details)*
SAFETY	
Safety Compliance	IEC 61010-2-030, IEC 61326-1, IEC 60529, IEC 60068-2-6, IEC 60068-2-27, IEC 60068-2-31, Pollution 2

Consult factory for NIST Calibration prices.

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

FEATURES

- **Wide Ratio Range** – Accurately measures transformer ratios up to 8000:1 for VT/PT mode and 1000:1 for CT mode
- **Advanced Low-Voltage Step-Down Measurement** – Applies test current to the primary side windings, enhancing operator safety and enabling testing across a wider range of transformer types and sizes
- **Automatic Test Cycles** – Quickly checks for lead reversal and open circuits with no manual balancing required
- **Built-in Continuity Testing** – Detects open transformer windings quickly
- **Deviation Calculations** – Compare measured values to stored nameplate data for instant pass/fail results
- **Large Storage Capacity** – Save up to 9801 test results for easy recall and reporting
- **PC Connectivity** – Transfer data, set nameplate values and control the instrument remotely with included DataView® software
- **Rugged and Portable** – Lightweight, field-ready design with an IP53-rated protective case *(with lid closed)*
- **Flexible Power Options** – Operates on NiMH batteries or 12 VDC external supply. Batteries can be recharged through USB-C connector or 12 VDC external supply.
- **User-Friendly Interface** – Bright backlit 4-line display, intuitive navigation keys, and audible test alerts

PRODUCT INCLUDES

Includes (6) rechargeable AA NiMH batteries *(installed)*, extra large carrying bag, set of (2) 15 ft test leads *(primary and secondary)* with (4) alligator clips *(red/black)*, 6 ft USB Type-C to Type-C cable, USB Type-C wall power adapter, 10 ft USB Type-A to Type-C cable, AC power adapter with cord and USB drive with DataView® software and user manual.



WARNING: This product can expose you to chemicals, including Bisphenol A, Styrene, Acrylonitrile, 1,3-Butadiene, Ethylbenzene, Nickel, Carbon, and Lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

Includes FREE DataView® software for configuring, data retrieval, real-time display, analysis and report generation

CAT. #	DESCRIPTION
2136.55	Digital Transformer Ratiometer DTR® Model 8511

Technical Assistance (800) 343-1391

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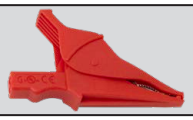
AEMC® INSTRUMENTS

TRANSFORMER RATIOMETERS

ACCESSORIES / REPLACEMENTS

	CAT. #	DESCRIPTION	DTR® 8511
	2133.73	Extra Large Classic Tool Bag Replacement Dimensions: (18 × 9 × 12) in	•
	2133.76	Bag – Extra Large Carrying Bag w/ Rubber Bottom Dimensions: (22.5 × 12.5 × 7.5) in	•
	2136.76	Lead – Set of (2) 30 ft for DTR® Models 8500, 8510 & 8511	•
	2136.77	Lead – Set of (2) Replacement, 15 ft for DTR® Models 8500, 8510 & 8511	•
	5000.99	Clip – Safety Alligator – Black (1000 V CAT IV, 15 A, UL V2)	•
	5100.00	Clip – Safety Alligator – Red (1000 V CAT IV, 15 A, UL V2)	•
	5100.25	Adapter – USB Type-C Wall Power Adapter	•
	5100.26	Adapter – Replacement AC Power Adapter w/ cord for DTR® Model 8511	•
	5100.27	Cable – 10 ft Type-C to Type-A	•
	5100.28	Cable – 6 ft USB Type-C 3.1 PD to Type-C	•

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DataView®

DATA ANALYSIS AND REPORTING SOFTWARE

AUTOMATIC REPORT GENERATION

AEMC INSTRUMENTS www.aemc.com

DataView® software, user manual and quick start guide are included in the USB Drive



DataView® turns your test data into clear insights and professional reports

Our DataView® software makes it easier to troubleshoot, optimize performance, and document results. By connecting your DTR® 8511directly to your computer, DataView® saves time and streamlines your workflow.

Configure All Functions:

- **Connect easily**
  Link your instrument to a computer via USB
- **See data live**
  Display and analyze real-time measurements in a clear, frame-style interface
- **Retrieve past results**
  Download and review previously recorded data
- **Fine-tune settings**
  Configure a wide variety of instrument parameters
- **Maintain your device**
  Erase stored content and perform instrument upkeep
- **Generate reports effortlessly**
  Use standard templates or customize your own for professional reporting



Flexible Reporting – Generate professional reports instantly with built-in templates or customize your own.

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