VERIMET® Model 7700 / 7710

- Sorts Gears, Bolts, Spindles, Roller Bearings, Shafts, Sprockets and Similar Parts for Comparative Hardness, Heat Treatment, Case Depth and Material Mix
- Automatic (optimum) Set-Up using “Learn Mode”
- Choice of 11 different Test Frequencies
- Sort using Phase, Amplitude or both
- Internal Storage for 10 different Part Programs and 1,000 Data Sets
- Built-in SPC for Data Analysis
- Interchangeable Probes and Coils
- Stable Test Results, even in difficult Environments
- Version available for Automated Testing in Static Mode (Verimet® 7710)

Portable Eddy Current Tester

THE CHOICE for QUALITY
CALL VERIMATION 800-521-5245
VERIMET® 7700/7710 Portable Eddy Current Tester

The Verimet® 7700 is a Portable, Microprocessor-Based Eddy Current Instrument for Heat Treat Verification, Alloy Sorting, Hardness Inspection and Case Depth testing of Ferrous Metal parts. Versatile and Accurate, it offers improved capabilities for a wide range of applications. The instrument is compact, lightweight and battery-equipped, so it is just as easy to use in the laboratory as it is in tough production environments. Interchangeable Probes and Coils are available to match a range of testing applications and conditions.

APPLICATIONS

Originally designed for the automotive, metallurgical and defense industries, the Verimet® 7700 effectively tests parts whenever material grade and heat treatment are critical to product integrity. A spot probe or encircling coil can be used, depending on the application. The feasibility of performing a successful sort can be determined in minutes, without extensive training or time-consuming tests.

FEATURES / BENEFITS

• LEARN MODE - From a small number of accept/reject part tests, the instrument will automatically select the optimum test frequency, test method (phase or amplitude) and sort limits for testing.

• HIGHLY PORTABLE - The lightweight (6 lbs.) design of the Verimet® 7700 makes on-location testing of large, bulky or difficult-to-move parts very simple.

• STATISTICS - Built-in SPC capability is enhanced by the ability to download the data in memory to floppy disks, hard drives, monitors or other programs for further analysis.

• DUAL POWER SUPPLY - A single battery charge permits up to 8 hours of continuous portable operation. An internal charging circuit is provided, along with an AC adapter for in-place testing. Line voltages are easily switch-able from 110 to 220.

• VERSATILE TESTING - The Verimet® 7700 tests any size part from small-diameter needle bearings to huge tank turret bearing journals. Standard connectors allow quick changeover from probes to coils. The following test frequencies are available: 50 Hz, 100 Hz, 200 Hz, 300 Hz, 500 Hz, 1 kHz, 2 kHz, 3 kHz, 5 kHz, 10 kHz, 20 kHz

• OUTPUTS - RS-232, audible and visual accept/reject indicators

• SIZE - 8.25” x 3.75” x 9.38” (21 cm x 9.5 cm x 23.8 cm) • WEIGHT: 6 lbs. (2.72 kg)

PROBES & EN CirCLING COILS

Available in a variety of stock sizes or custom-built for special applications.

WARRANTY: All parts and workmanship are guaranteed for a full year from date of purchase. Email: info@verimation.com — www.verimation.com Verimet® is a registered trademark of Verimation Technology, Inc.
EDDY CURRENT TESTING FOR NON-FERROUS METALS AND ALLOYS

VERIMET®
PORTABLE
CONDUCTIVITY TESTER
MODEL M4900C

CALL 800-521-5245 For Your Custom Quotation
The Verimet® M4900C is especially well-suited for measuring the conductivity of aluminum and aluminum alloys. It tracks the temperature coefficient (typically aluminum) using a single-knob control to adjust the readings. Compensation is accurate to 0.5% I.A.C.S. over the full range of 12% to 110% I.A.C.S. (5.75% to 52.8% MegaSiemens). The M4900C has an accuracy of 0.3% over the aluminum range of 30% to 62% I.A.C.S. The Verimet® M4900C tester works well on rough or finished surfaces, including forgings, castings, sheet stock and small parts of reasonable mass. Penetration depth is constant, irrespective of material or conductivity.

- FEATURES AND BENEFITS -

- Provides rapid conductivity testing for alloy content, heat treatment, material mixes, hardness and tensile strength.
- Unique, patented design offers quick, accurate, non-destructive testing for aluminum, copper, bronze and other non-ferrous metals.
- For metal ingots, forgings, castings, sheet stock and processed parts, including lithium/aluminum alloys.
- Single COMP knob adjustment for temperature compensation.
- Linear response meets or exceeds military and aircraft industry standards.
- Excellent lift-off range for rapid, non-contact testing.
- Adjustable temperature compensation circuitry with single knob adjustment for temperature variations.
- Linear response over the full instrument range.
- Linear response plot vs. curve of other instruments.
- Portable, using 12-18 hour rechargeable batteries with A/C charger/adapter provided.
- Reliable performance with no need for periodic balance, null adjustment or sensitivity setting changes for difficult test conditions.

- CONSTRUCTION -

- The Verimet® M4900C electronics are housed in rugged, light-weight, cast aluminum cases that stand up well to hostile production environments.
- Mil-Spec type electronic components and assembly methods assure trouble-free operation.
- The Verimet® M4900C is optionally available in switch-able I.A.C.S. readings or in MegaSiemens.

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<th>Standards and Certifications:</th>
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<td>For correct operation, a Conductivity Standard should be used within the range (% I.A.C.S.) at which testing is conducted. The standard we use are directly traceable to N.I.S.T. standards.</td>
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The available Conductivity Standards Values are: Approximately 23%, 30%, 37%, 48%, 59.8% and 100% IACS. Values are subject to change according to availability.

The Verimet® Portable Conductivity Tester, Model 4900C is a Certified Conductivity Test Instrument.

**Specifications:**

- **Size:** 6.75" x 3.75" x 2.75" (17.2 x 9.5 x 7.0cm)
- **Weight:** 2.5 lb. (1.13kg)
- **Penetration Depth:** 0.050" (1.27mm)
- **Range (I.A.C.S.):** 12% to 110%
- **Lift-off:** 0.025 inch (0.6mm) max.
- **Accuracy:** 0.3% (Spec: 30% - 62%) 0.5% (Full Range)
- **Resolution:** 0.1%
- **Power Supply:** Rechargeable Nickel Cadmium Batteries with A/C Adapter/ Battery Charger 115/60 Hz or 220/50 Hz
- **Probes:** 4900M216C probe, 7/16" (11.1mm) with 42" (107cm) cable
- **Readout:** 4 Digit LED Numeric Display

**Warranty:** All parts and workmanship are guaranteed for a full year from date of purchase. Email: info@verimation.com — www.verimation.com

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